Bang&Olufsen

Beovision ME 6000

Type 532x

Stand

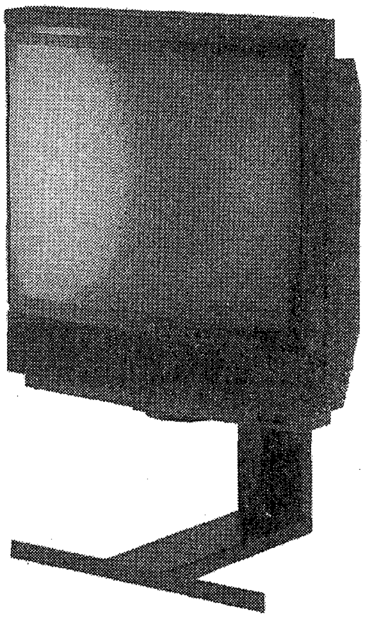
ST 4128

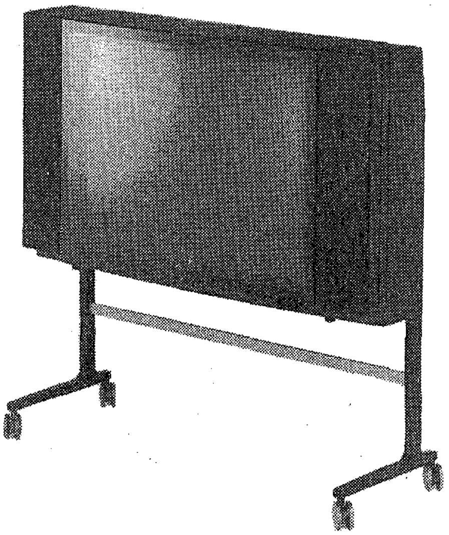
Beovision LE 6000

Type 530x

Stand

TB 4108





SERVICE MANUAL

CONTENTS

Survey of modules 1-1
Technical specifications 1-2
Brief operation guide 1-5

Diagrams etc. **2**
Explanation of diagram 2-1
Block diagrams 2-2, 2-3, 2-5
Diagrams .... 2-6 - 2-21

List of electrical parts **3**

List of mechanical parts **4**

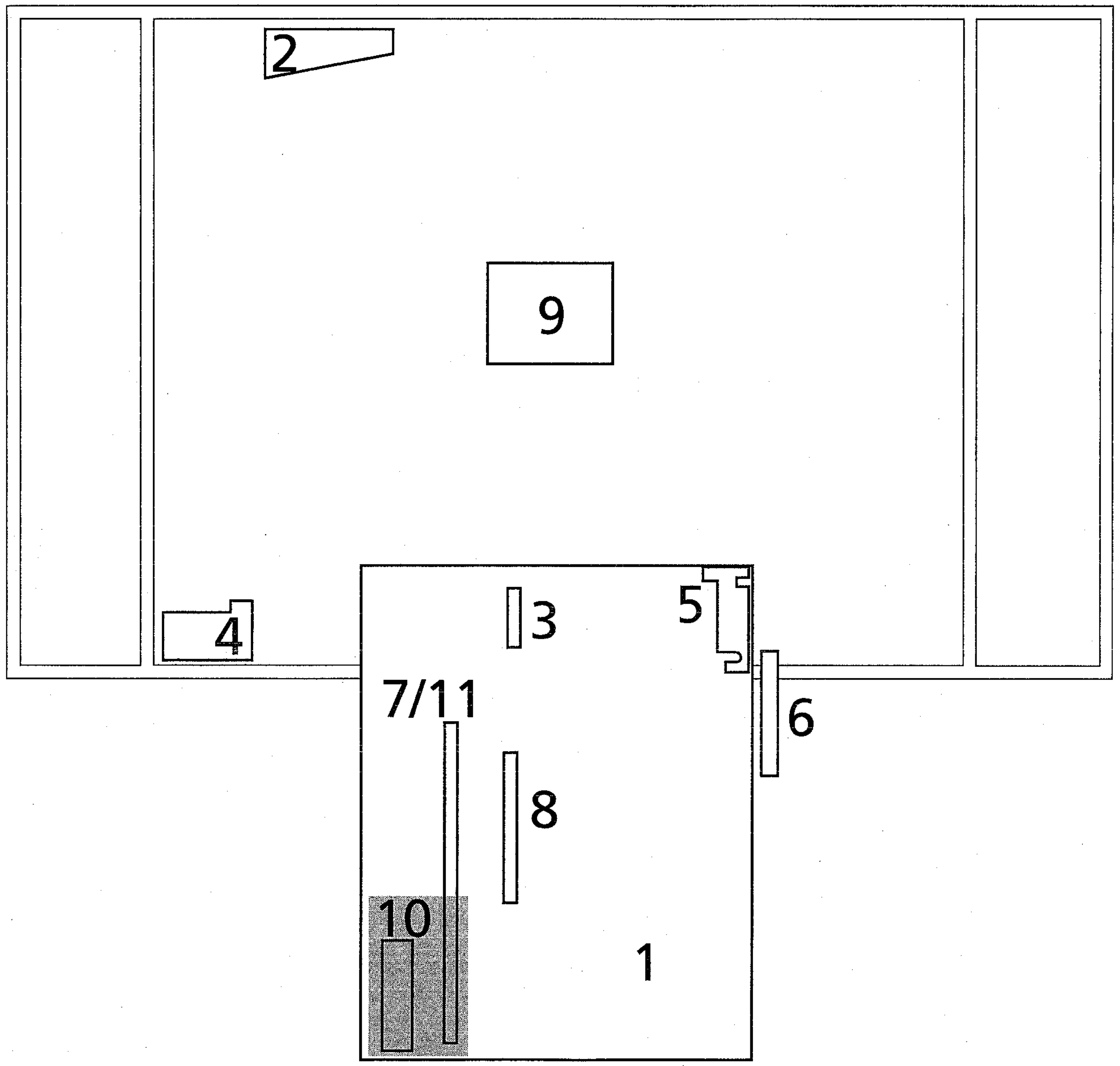
Adjustments and repair tips **5**

	GB	D	F
Adjustments	5-1	5-8	5-16
Conditions	5-1	5-8	5-16
Module 01, Pain Panel	5-1	5-8	5-16
Module 07, IF & Sound A2 & NICAM	5-3	5-10	5-18
Module 11, IF & Sound A2 stereo	5-4	5-11	5-19
Repair tips	**5-6**	**5-14**	**5-22**

Dismantling **6**
LE 6000 6-2
ME 6000 6-4

Insulation test **7**

1	Main Panel	diagram A, B, C, D	page 2-6, 2-7, 2-8, 2-11
2	IR Receiver	diagram E	page 2-12
3	A/V Link Interface	diagram A	page 2-6
4	Headphone	diagram E	page 2-12
5	Degauss	diagram D	page 2-11
6	Mains Filter & Rectifier	diagram D	page 2-11
7	IF & Sound A2 & NICAM	diagram I	page 2-17
8	Teletext	diagram J	page 2-20, 2-21
9	Video Output	diagram F	page 2-13
10	A/V 2 Interface	diagram B	page 2-7
11	IF & Sound A2	diagram H	page 2-16

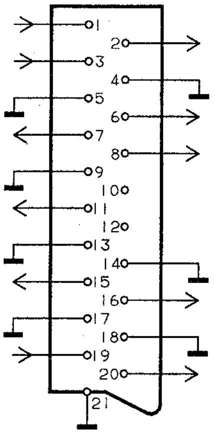


SPECIFICATION GUIDELINES FOR SERVICE USE	**Beovision LE 6000**
	Type 5307 B/G PAL
	Type 5303 I PAL
Operations	Beolink 1000, one way
	On-screen display
Picture tube (Visual picture)	Black Line 70 cm - 28" (66 cm - 26")
	Flat square, In Line 110 degrees
Contrast screen	Glass
Design	Wide format
Finish	Black
Tuner range type 5307 EU	46-855 MHz: VHF,S,Hyper,UHF
Tuner range type 5303 GB	470-855 MHz: UHF
No. of TV programmes	60
Teletext	TOP, FLOF
	6 alphabet
Sound	
Type 5307 EU	Stereodecoder Nicam EU + A2
Type 5303 GB	Stereodecoder Nicam GB
Speaker units	2 x 10 cm -4", full range
Long-term max. output power	2 x 20 watts/8 ohms
Mains voltage	220-240 volts, 50-60 Hz
Power consumption	Typical 107 watts, min. 6 watts
Dimensions WxHxD	86 x 52 x 46 cm.
Weight	46 kg.
Acessories	
Beovision LE 6000 table	Type 4108
Traverse for table	Type 4104
Beocord V 3000	Shelf type 4124
Beocord V 6000	Shelf type 4131

SPECIFICATION GUIDELINES FOR SERVICE USE	**Beovision ME 6000**
	Type 5320 B/G/L/I PAL/SECAM (NTSC 4.43MHz on AV)
	Type 5323 I PAL
	Type 5327 B/G PAL
Operations	Beolink 1000 one way
	On-screen display
Picture tube (Visual picture)	Black Line 70 cm - 28" (66 cm - 26")
	Flat square, In Line 110 degrees
Contrast screen	Glass
Design	High format cabinet
Finish	Black
Tuner range type 5320	46-855 MHz: VHF,S,Hyper,UHF
SECAM L VHF band I Transposer	Built-in
Tuner range type 5323	470-855 MHz: UHF
Tuner range type 5327	46-855 MHz: VHF,S,Hyper,UHF
No. of TV programmes	60
Teletext	TOP, FLOF
	6 alphabet
Sound	
Type 5320	Stereodecoder A2
Type 5323	Stereodecoder NICAM GB
Type 5327	Stereodecoder NICAM EU + A2
Speaker units	2 x 10 cm - 4", full range
Long-term max. output power	2 x 20 watts/8 ohms
Mains voltage	220-240 volts, 50-60 Hz
Power consumption	Typical 107 watts, min. 6 watts
Dimensions WxHxD	65 x 67.5 x 46.5 cm
Weight	39.5 kg
Acessories	
Beovision ME 6000 table	Type 4128
Beocord V 6000	Shelf type 4129

Connection

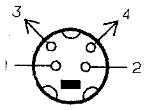
AV1 & AV2

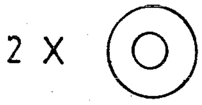


Pin 1	Audio R out 500 mV RMS ≦1 kohm	
Pin 2	Audio R in 0.2-2 V RMS ≧10 kohms	
Pin 3	Audio L out 500 mV RMS ≦1 kohm	
Pin 4	Audio ⊥	
Pin 5*	Blue ⊥	
Pin 6	Audio L in 0.2-2 V RMS ≧10 kohms	
Pin 7*	Blue in 0.7Vpp 75 ohms	
Pin 8	12V sense Logic 0 = 0V-2V 10 kohms	
	Logic 1 = 9.5V-12V 10 kohms	
	Data High: Logic 0 = 9.5V-10.3V	
	Logic 1 = 11V-12V	
	Low: Logic 0 = 0V-0.55V	
	Logic 1 = 1.25V-2V	
Pin 9*	Green ⊥	
Pin 10	Not used	
Pin 11*	Green in 0.7 Vpp 75 ohms	
Pin 12	Not used	
Pin 13*	Red ⊥	
Pin 14	Blanking ⊥	
Pin 15*	Red in 0.7 Vpp 75 ohms	
Pin 16*	Blanking in	Logic 0=0 to 0.4V
		Logic 1=1 to 3V
		R in 75 ohms
Pin 17	Video out ⊥	
Pin 18	Video in ⊥	
Pin 19	Composite video out 1Vpp 75 ohms	
Pin 20	Composite video in 1Vpp 75 ohms	
Pin 21	Shield	

* = Not connected on AV2

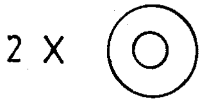
S-VHS





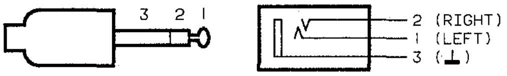
Pin 1	Y ⊥
Pin 2	C ⊥
Pin 3	Luminance in (Y) 1Vpp 75 ohms
Pin 4	Chrominance in (C) 75 ohms
	L&R S-VHS audio input
	0.2-2 V RMS ≧10 kohms

AUDIO OUT



L&R constant level
audio output
500 mV RMS ≦1 kohm

HEADPHONE



ø3.5 mm 240 ohms in series
to the output amplifier.
The internal speakers
are switched off when
the headphone is connected.

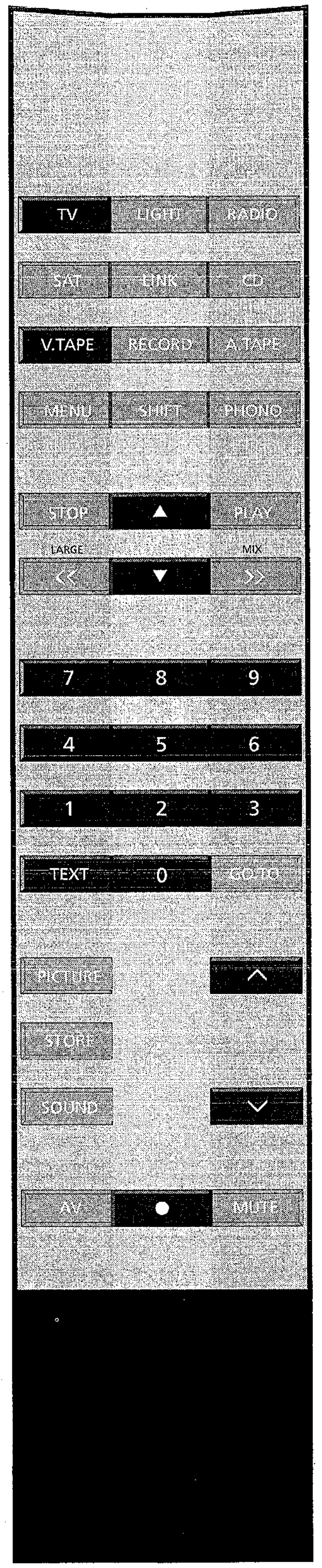
Subject to change without notice

BRIEF OPERATION GUIDE

Main/daily operations

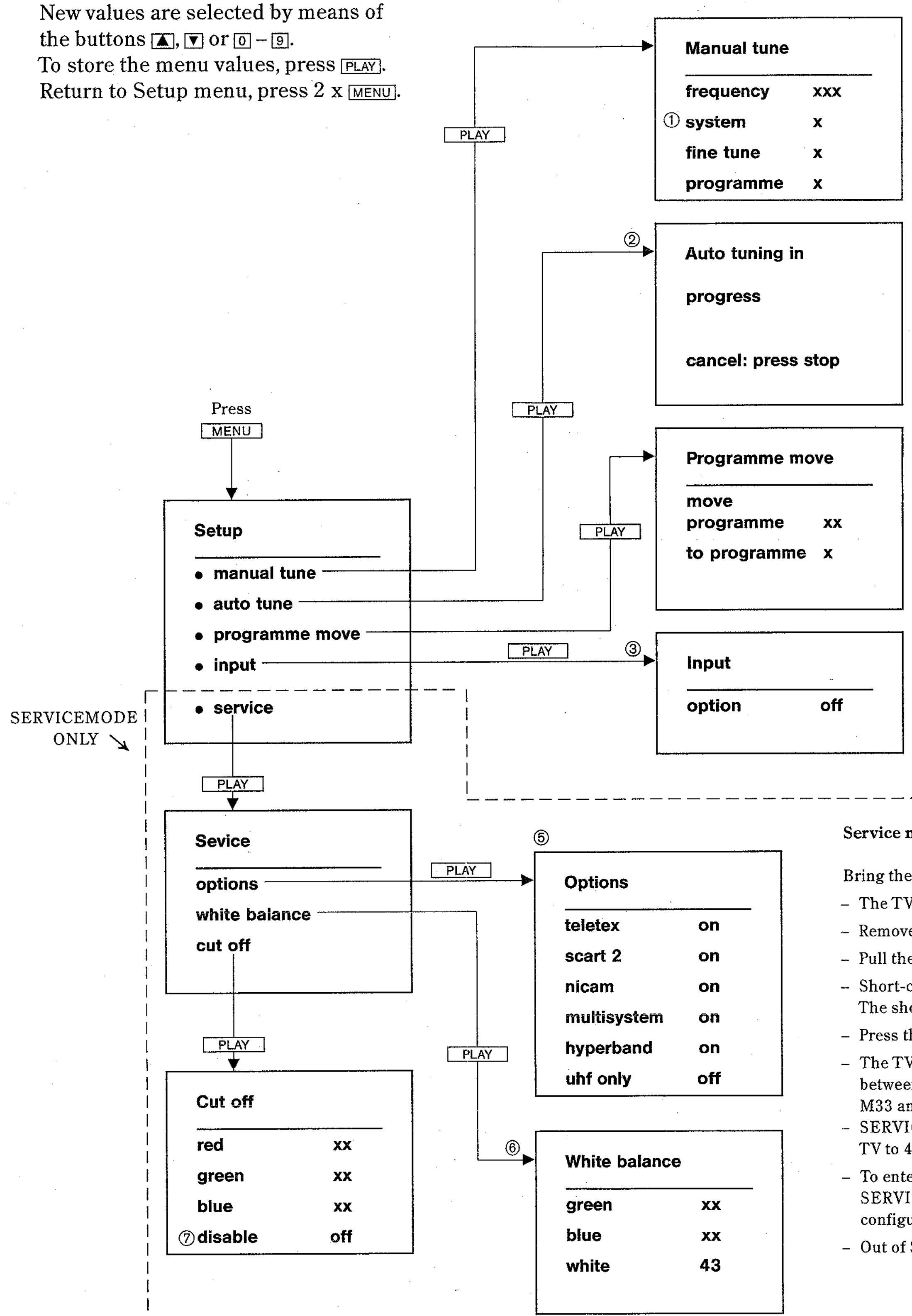
TV	Switches on the TV
V.TAPE	Switches on the TV and a Bang & Olufsen video recorder connected to AV1
▲ *or* ▼	Steps through programs or teletext pages
0 ↓ 9	Selects specific program or teletext page
TEXT	Switches to teletext
^	Raises the volume
v	Lowers the volume
●	Stand-by. Switches off the TV

Beolink 1000


TV
LIGHT
RADIO
SAT
LINK
CD
V.TAPE
RECORD
A.TAPE
MENU
SHIFT
PHONO
STOP
PLAY
LARGE
MIX
7
8
9
4
5
6
1
2
3
TEXT
0
GO TO
PICTURE
STORE
SOUND
AV
MUTE

Menu Operation

The cursor in the menus is moved by means of the buttons ≪, ≫.
New values are selected by means of the buttons ▲, ▼ or 0 – 9.
To store the menu values, press PLAY.
Return to Setup menu, press 2 x MENU.


Press
MENU
Setup
• manual tune
• auto tune
• programme move
• input
• service
SERVICEMODE ONLY
PLAY
Manual tune
frequency xxx
① system x
fine tune x
programme x
②
Auto tuning in
progress
cancel: press stop
Programme move
move
programme xx
to programme x
③
Input
option off
Sevice
options
white balance
cut off
⑤
Options
teletex on
scart 2 on
nicam on
multisystem on
hyperband on
uhf only off
⑥
White balance
green xx
blue xx
white 43
Cut off
red xx
green xx
blue xx
⑦disable off

Sound adjustments:

Press SOUND

④

Sound

Option	stereo
volume	32
balance	✕
bass	0
treble	0
expand	off

Picture adjustments:

Press PICTURE

Picture

brilliance	32
colour	32
contrast	32

① The "System" line is only shown in multistandard TV's.

② During auto tuning the stations will be stored on programs starting from no. 59 and going downwards.
The program nos. can be altered in the Program move menu.

③ In the Input menu it is possible to select between S-VHS, AV1 or AV2 input. It is only possible to select one of the inputs, and the selected input cannot be stored.
AV1 input will always be selected when pressing V.TAPE

④ In the Sound menu the option line cannot be stored.

Service mode

Bring the TV into SERVICE MODE

- The TV must be in stand-by position.
- Remove the rear panel.
- Pull the main panel out into service position.
- Short-circuit the service pins M33 and M34.
  The short-circuit must be permanent.
- Press the STEP button on the TV front or TV on Beolink 1000.
- The TV will now start up in SERVICE MODE if that is possible. The short-circuit between M33 and M34 can now be removed. The St by LED be orange as long as M33 and M34 are short circuit.
- SERVICE MODE will set all sound and picture values to medium level and tune the TV to 475.25 MHz.
- To enter the SERVICE MODE menu select service in the Setup menu. In the SERVICE MODE menus it is possible to adjust chroma parts and change the configuration of the TV.
- Out of SERVICE MODE press ●.

⑤ Options menu:
The "nicam" line must be set to "on" in a single standard TV and to "off" in a multistandard TV.
The "multisystem" line must be set to "off" in a single standard TV and to "on" in a multistandard TV.
The "uhf only" line must be set to "on" in a system I TV and to "off" in a system BG TV.
The other lines must be set as shown.

⑥ In the white balance menu, white must always be set to the value 43.

⑦ "Disable on" will open the loop in the automatic cut-off system, which might be a help during repair. During normal operation disable must always be off.

EXPLANATION OF DIAGRAM

SYMBOL FOR SAFETY COMPONENTS

⚠

When replacing components with this symbol the same type has to be used. The new component is to be mounted in the same way as the replaced one.

Ground symbols

The cold chassis direct voltages and oscillograms should be measured with regard to the tuner ground (⊥). Voltages on the line mains side of the SOPS transformer 5625 should be measured with respect to (⏚).

MEASURING CONDITIONS

The direct voltages and oscillograms given in the diagrams should be measured in the service default mode (see page 1-5). A colour bar signal, modulated on a picture carrier wave of 475.25 MHz, shoul dbe used as the vidoe signal. A 1 KHz signal should be used for the sound (for all systems).

Where necessary, the oscillograms and direct voltages are measured with (⊤) and without aerial signal (⊤̸). Voltages in the power supply section are measured both for normal operation (Φ) and in standby (⏻). These values are indicated by means of the appropriate symbols.

In order to prevent measuring errors, the heat sinks should not be used as reference points for measurements.
The heat sink for the sound output amplifier (next to the channel selector) is connected to the -16 or -12 volts.

Positions nos. for the components

1XXX	Crystals, fuses, filters etc.
2XXX	Capacitors
3XXX	Resistors
4XXX	SMD-jumpers
5XXX	Coils, transformers and the like
6XXX	Diodes
7XXX	Transistors and IC's

I^{2}C Bus

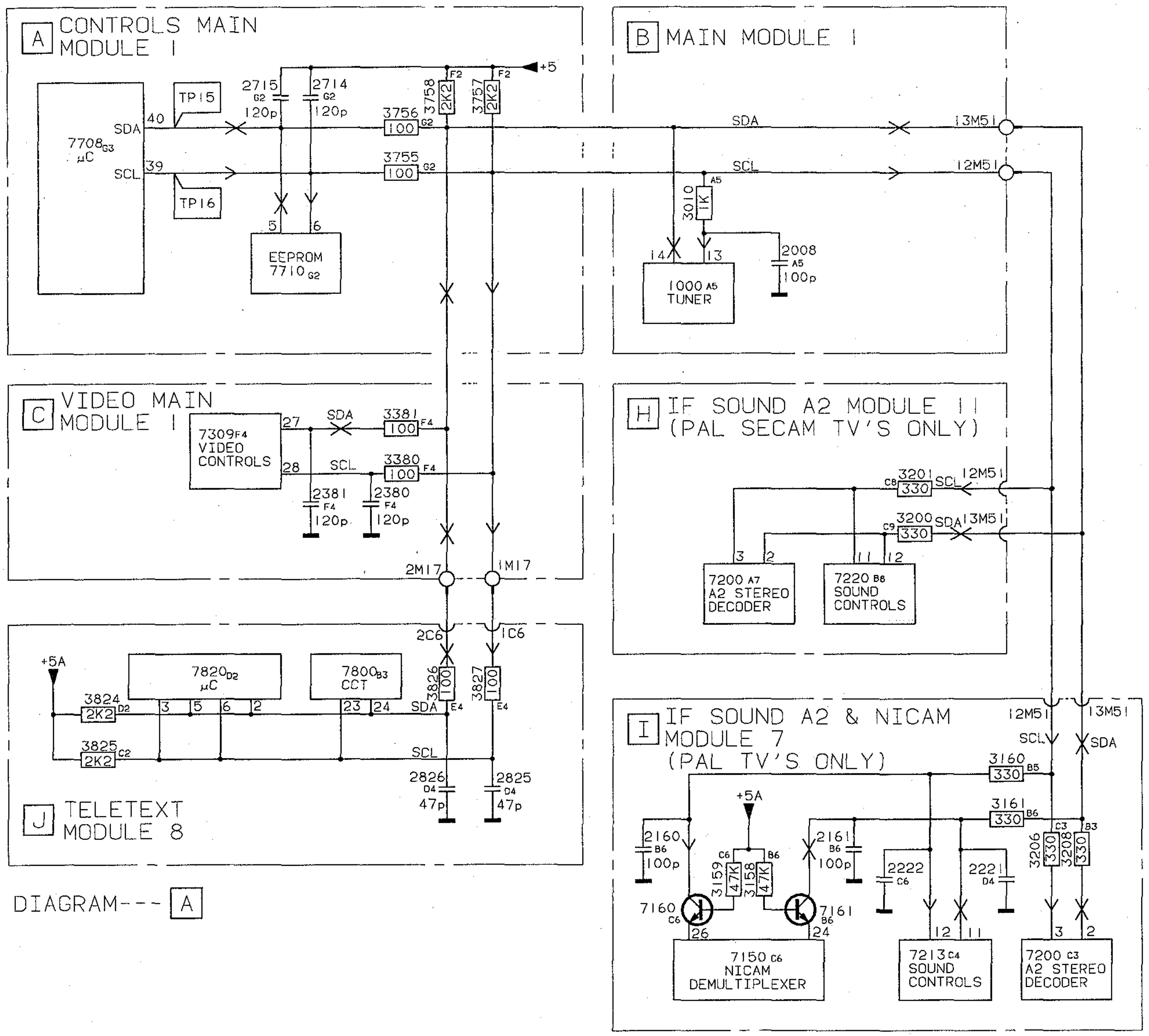

A CONTROLS MAIN MODULE 1
7708 G3 µC
SDA
SCL
40
39
TP15
TP16
2715 G2 120p
2714 G2 120p
3756 100 G2
3755 100 G2
3758 2K2 F2
3757 2K2 F2
+5
EEPROM 7710 G2
5
6
B MAIN MODULE 1
SDA
SCL
13M51
12M51
3010 1K A5
14
13
1000 A5 TUNER
2008 A5 100p
C VIDEO MAIN MODULE 1
7309 F4 VIDEO CONTROLS
27
28
SDA
SCL
3381 100 F4
3380 100 F4
2381 F4 120p
2380 F4 120p
2M17
1M17
H IF SOUND A2 MODULE 11 (PAL SECAM TV'S ONLY)
3201 C8 330
3200 C9 330
SCL
SDA
12M51
13M51
7200 A7 A2 STEREO DECODER
7220 B8 SOUND CONTROLS
3
2
11
12
2C6
1C6
+5A
3824 2K2 D2
3825 2K2 C2
7820 D2 µC
7800 B3 CCT
3
5
6
2
23
24
SDA
SCL
3826 100 E4
3827 100 E4
2826 D4 47p
2825 D4 47p
J TELETEXT MODULE 8
I IF SOUND A2 & NICAM MODULE 7 (PAL TV'S ONLY)
12M51
13M51
SCL
SDA
3160 B5 330
3161 B6 330
+5A
2160 B6 100p
3159 C6 47K
3158 B6 47K
2161 B6 100p
2222 C6
2221 D4
3206 C3 330
3208 330 B3
7160 C6
7161 B6
26
24
7150 C6 NICAM DEMULTIPLEXER
7213 C4 SOUND CONTROLS
12
11
7200 C3 A2 STEREO DECODER
3
2

DIAGRAM--- A

Protection

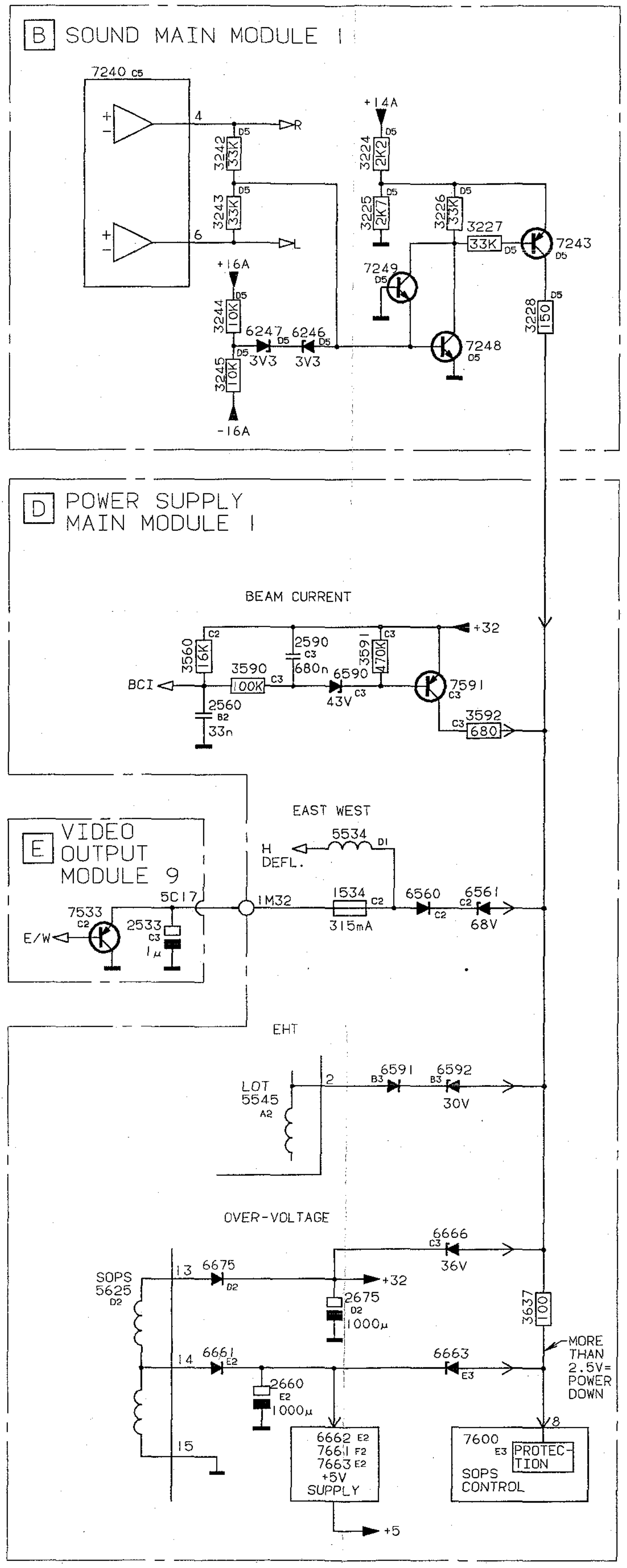
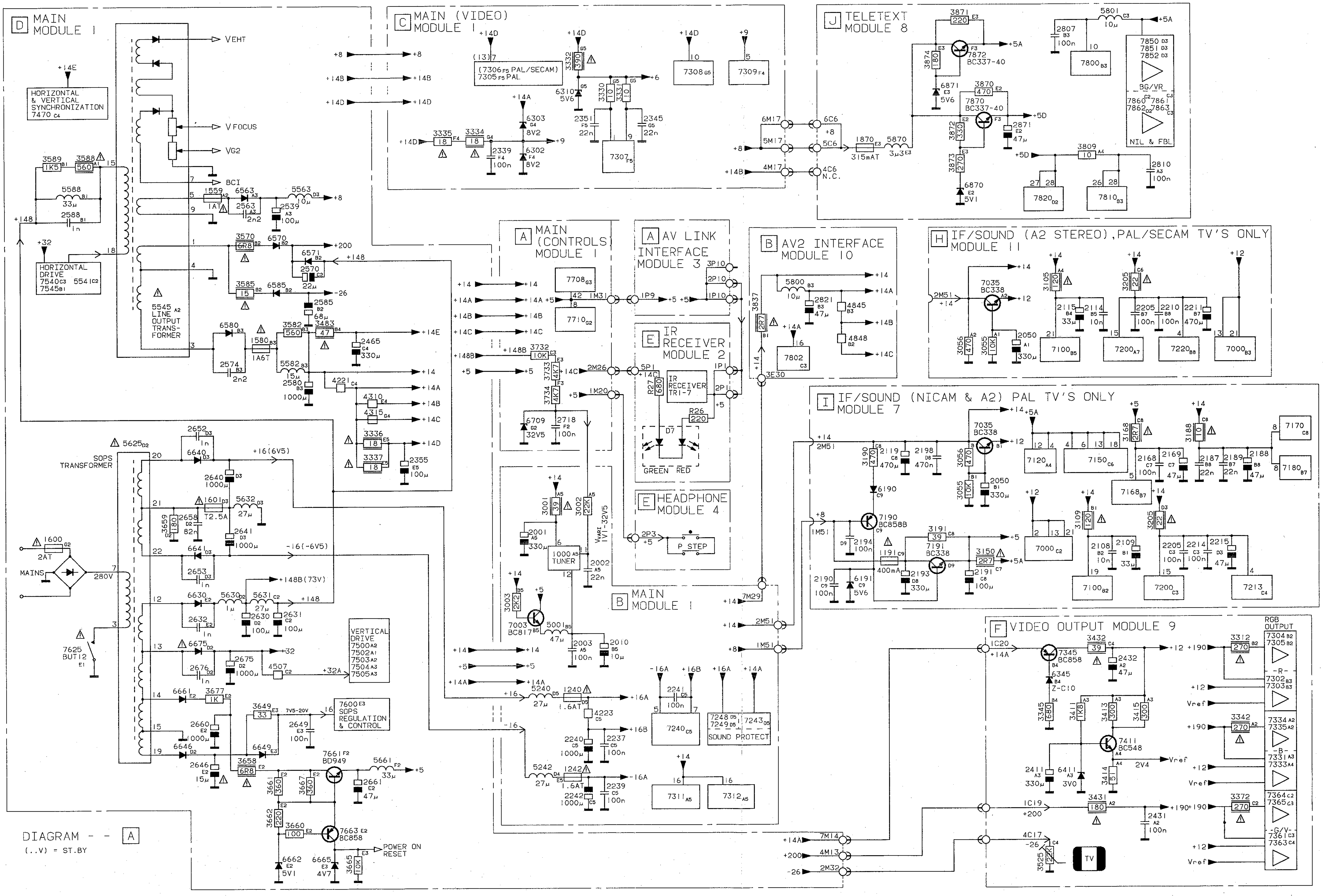
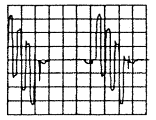

B SOUND MAIN MODULE 1
7240 C5
4
6
R
L
3242 33K D5
3243 33K D5
+16A
3244 10K D5
3245 10K D5
-16A
6247 D5 3V3
6246 D5 3V3
+14A
3224 2K2 D5
3225 2K7 D5
3226 33K D5
3227 33K D5
7249 D5
7248 D5
7243 D5
3228 150 D5
D POWER SUPPLY MAIN MODULE 1
BEAM CURRENT
+32
3560 16K C2
2590 C3 680n
3591 470K C3
BCI
3590 100K C3
6590 43V C3
7591 C3
2560 B2 33n
3592 C3 680
E VIDEO OUTPUT MODULE 9
EAST WEST
H DEFL.
5534 D1
5C17
1M32
1534 C2 315mA
6560 C2
6561 C2 68V
7533 C2
2533 C3 1µ
E/W
EHT
LOT 5545 A2
2
6591 B3
6592 B3
30V
OVER-VOLTAGE
6666 C3 36V
SOPS 5625 D2
13
6675 D2
+32
2675 D2 1000µ
14
6661 E2
6663 E3
2660 E2 1000µ
3637 100
MORE THAN 2.5V= POWER DOWN
15
6662 E2
7661 F2
7663 E2
+5V SUPPLY
+5
8
7600 E3 SOPS CONTROL
PROTECTION

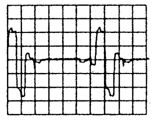
DIAGRAM--- A

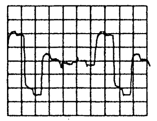
Power Supply distribution

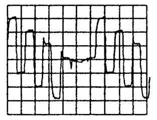

D MAIN MODULE 1
HORIZONTAL & VERTICAL SYNCHRONIZATION 7470 C4
HORIZONTAL DRIVE 7540 C3 554 IC2 7545 B1
5545 A2 LINE OUTPUT TRANSFORMER
VEHT
V FOCUS
VG2
BCI
SOPS TRANSFORMER 5625 D2
MAINS
1600 2AT
280V
7625 BUT12
VERTICAL DRIVE 7500 A2 7502 A1 7503 A2 7504 A3 7505 A3
7600 E3 SOPS REGULATION & CONTROL
7661 BD949
7663 BC858
POWER ON RESET
DIAGRAM - - A
(..V) = ST.BY
C MAIN (VIDEO) MODULE 1
(7306 F5 PAL/SECAM) 7305 F5 PAL
7307 F5
7308 G5
7309 F4
J TELETEXT MODULE 8
7872 BC337-40
7870 BC337-40
7800 B3
7850 D3 7851 D3 7852 D3
BG/VR
7860 7861 7862 7863
NIL & FBL
7820 D2
7810 B3
A MAIN (CONTROLS) MODULE 1
7708 G3
7710 G2
A AV LINK INTERFACE MODULE 3
E IR RECEIVER MODULE 2
IR RECEIVER TR1-7
GREEN RED
E HEADPHONE MODULE 4
P STEP
B AV2 INTERFACE MODULE 10
7802 C3
H IF/SOUND (A2 STEREO), PAL/SECAM TV'S ONLY MODULE 11
7035 BC338
7100 B5
7200 A7
7220 B8
7000 B3
I IF/SOUND (NICAM & A2) PAL TV'S ONLY MODULE 7
7035 BC338
7120 A4
7150 C6
7170 C8
7180 B7
7168 B7
7190 BC858B
7191 BC338
7000 C2
7100 B2
7200 C3
7213 C4
B MAIN MODULE 1
1000 A5 TUNER
7003 BC817
7240 C5
7248 D5 7249 D5 7243 D5 SOUND PROTECT
7311 A5
7312 A5
F VIDEO OUTPUT MODULE 9
7345 BC858
7411 BC548
RGB OUTPUT
7304 B2 7305 B2 -R- 7302 B3 7303 B3
7334 A2 7335 A2 -B- 7331 A3 7333 A4
7364 C2 7365 C3 -G/V- 7361 C3 7363 C4
TV
+5 +8 +12 +14 +14A +14B +14C +14D +14E +16 -16 +16A -16A +16B +32 +148 +148B +190 +200 -26 Vref

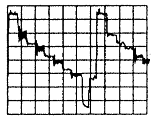
Oscillogrammes / Oszillogramme / Oscillogrammes

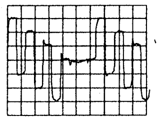

TP 1
0,2 V/div AC
20 μS/div

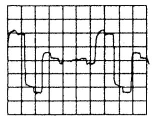

TP 2
0,2 V/div AC
20 μS/div

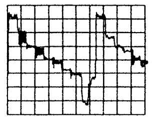

TP 3
0,2 V/div AC
10 μS/div

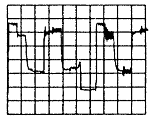

TP 4
0,2 V/div AC
10 μS/div

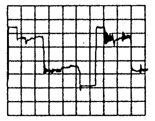

TP 5
0,1 V/div AC
10 μS/div

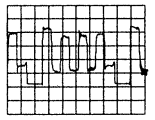

TP 6
0,2 V/div AC
10 μS/div

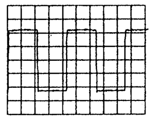

TP 7
0,2 V/div AC
10 μS/div

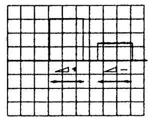

TP 8
50 mV/div AC
10 μS/div

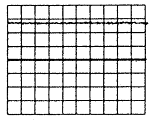

TP 9
0,5 V/div AC
10 μS/div

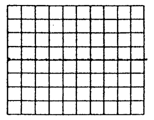

TP 10
0,5 V/div AC
10 μS/div

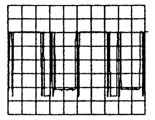

TP 11
0,5 V/div AC
10 μS/div

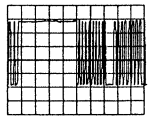

TP 12
1 V/div AC
10 μS/div

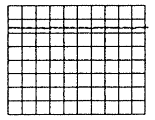

TP 13
1 V/div DC
1 S/div

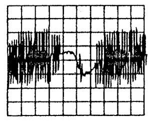

TP 14
1 V/div DC
0,5 mS/div

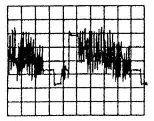

TP 14 ⏻
0,2 V/div DC
0,5 mS/div

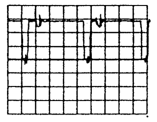

TP 15
1 V/div AC
0,2 mS/div

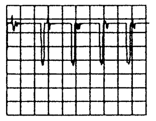

TP 16
1 V/div DC
0,1 mS/div

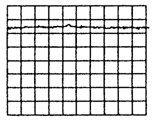

TP 18
2 V/div DC
20 mS/div

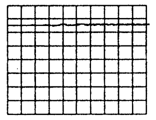

TP 19
50 mV/div AC
10 μS/div

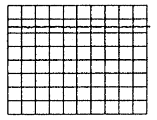

TP 20
0,5 V/div AC
10 μS/div

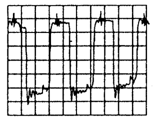

TP 21
0,5 V/div DC
5 μS/div

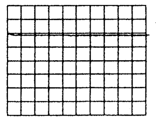

TP 21 ⏻
0,5 V/div DC
10 μS/div

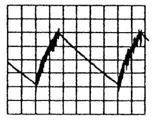

TP 22
1 V/div DC

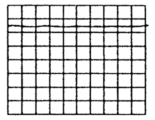

TP 23
1 V/div DC

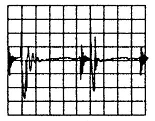

TP 24
5V/div DC

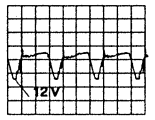

TP 25
0,2 V/div AC
5 μS/div


TP 26
1 V/div DC

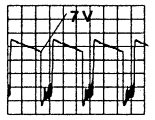

TP 26 ⏻
0,1 V/div AC
5 mS/div


TP 27
1 V/div DC

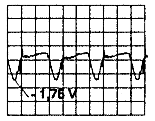

TP 27 ⏻
50 mV/div AC
10 mS/div



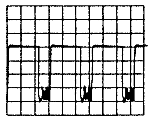
TP 28
0,5 V/div AC
5 μS/div

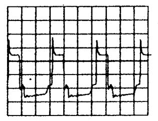


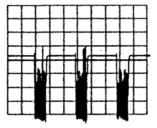
TP 28 ⏻
1 /div AC
10 mS/div

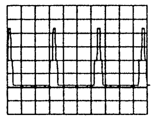


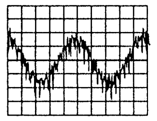
TP 29
0,5 V/div AC
5 μS/div

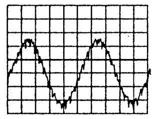

TP 29 ⏻
1 V/div AC
10 mS/div

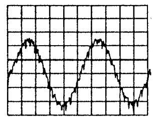

TP 30
2 V/div DC
5 μS/div

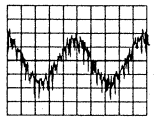

TP 30 ⏻
1 V/div DC
10 mS/div

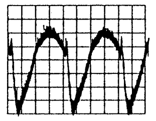

TP 31
2 V/div DC
20 μS/div

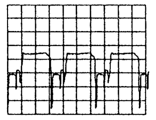

TP 32
50 mV/div DC
0,2 mS/div

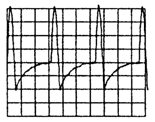

TP 33
2 V/div DC
0,2 mS/div

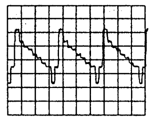

TP 34
2 V/div DC
20 μS/div

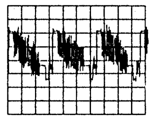

TP 35
50 mV/div DC
0,2 mS/div

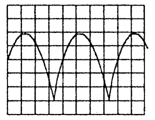

TP 36
0,2 V/div AC
5 mS/div

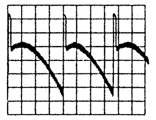

TP 37
2 V/div AC
20 μS/div

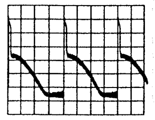

TP 38
20 mV/div AC
20 μS/div

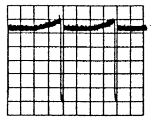

TP 39
0,2 V/div AC
20 μS/div

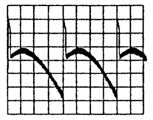

TP 40
0,5 V/div AC
20 μS/div

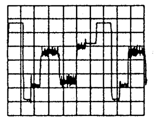

TP 41
2 V/div AC
5 mS/div

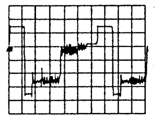

TP 41 a
5 V/div AC
5 mS/div

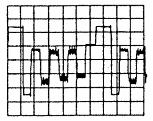

TP 41 b
5 V/div AC
5 mS/div

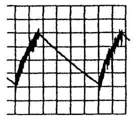

TP 41 c
0,1 V/div AC
5 mS/div


TP 41 d
5 V/div AC
5 mS/div

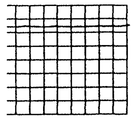

TP 51
130 V_{pp}
115 V_{pp} for 21"


TP 52
120 V_{pp}
115 V_{pp} for 21"

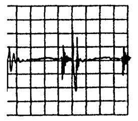

TP 53
120 V_{pp}
110 V_{pp} for 21"



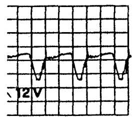
TP 26 ⏻
,1 V/div AC
5 mS/div



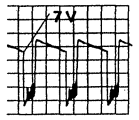
TP 27
1 V/div DC



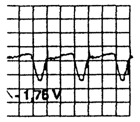
TP 27 ⏻
mV/div AC
10 mS/div



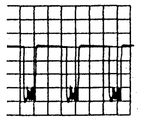
TP 28
,5 V/div AC
5 μS/div



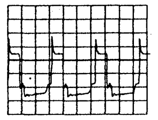
TP 28 ⏻
1 /div AC
10 mS/div



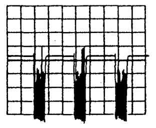
TP 29
,5 V/div AC
5 μS/div



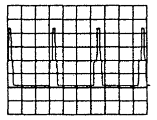
TP 29 ⏻
1 V/div AC
10 mS/div



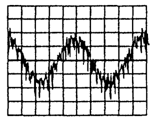
TP 30
2 V/div DC
5 μS/div



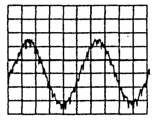
TP 30 ⏻
1 V/div DC
10 mS/div



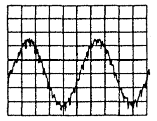
TP 31
2 V/div DC
20 μS/div



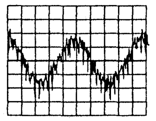
TP 32
50 mV/div AC
0,2 mS/div



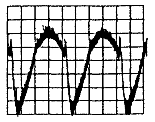
TP 33
2 V/div DC
0,2 mS/div



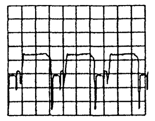
TP 34
2 V/div DC
20 μS/div



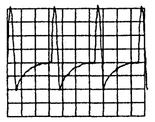
TP 35
50 mV/div DC
0,2 mS/div



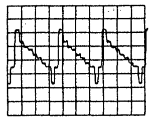
TP 36
0,2 V/div AC
5 mS/div



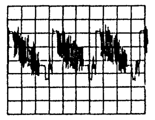
TP 37
2 V/div AC
20 μS/div



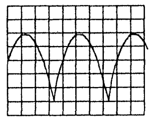
TP 38
20 mV/div AC
20 μS/div



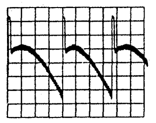
TP 39
0,2 V/div AC
20 μS/div



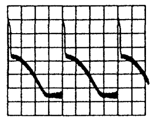
TP 40
0,5 V/div AC
20 μS/div



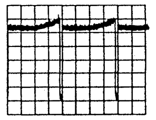
TP 41
2 V/div AC
5 mS/div



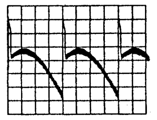
TP 41 a
5 V/div AC
5 mS/div



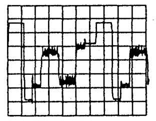
TP 41 b
5 V/div AC
5 mS/div



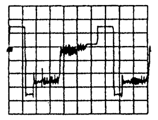
TP 41 c
0,1 V/div AC
5 mS/div



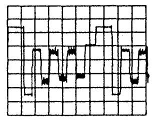
TP 41 d
5 V/div AC
5 mS/div



TP 51
130 V_{pp}
115 V_{pp} for 21"

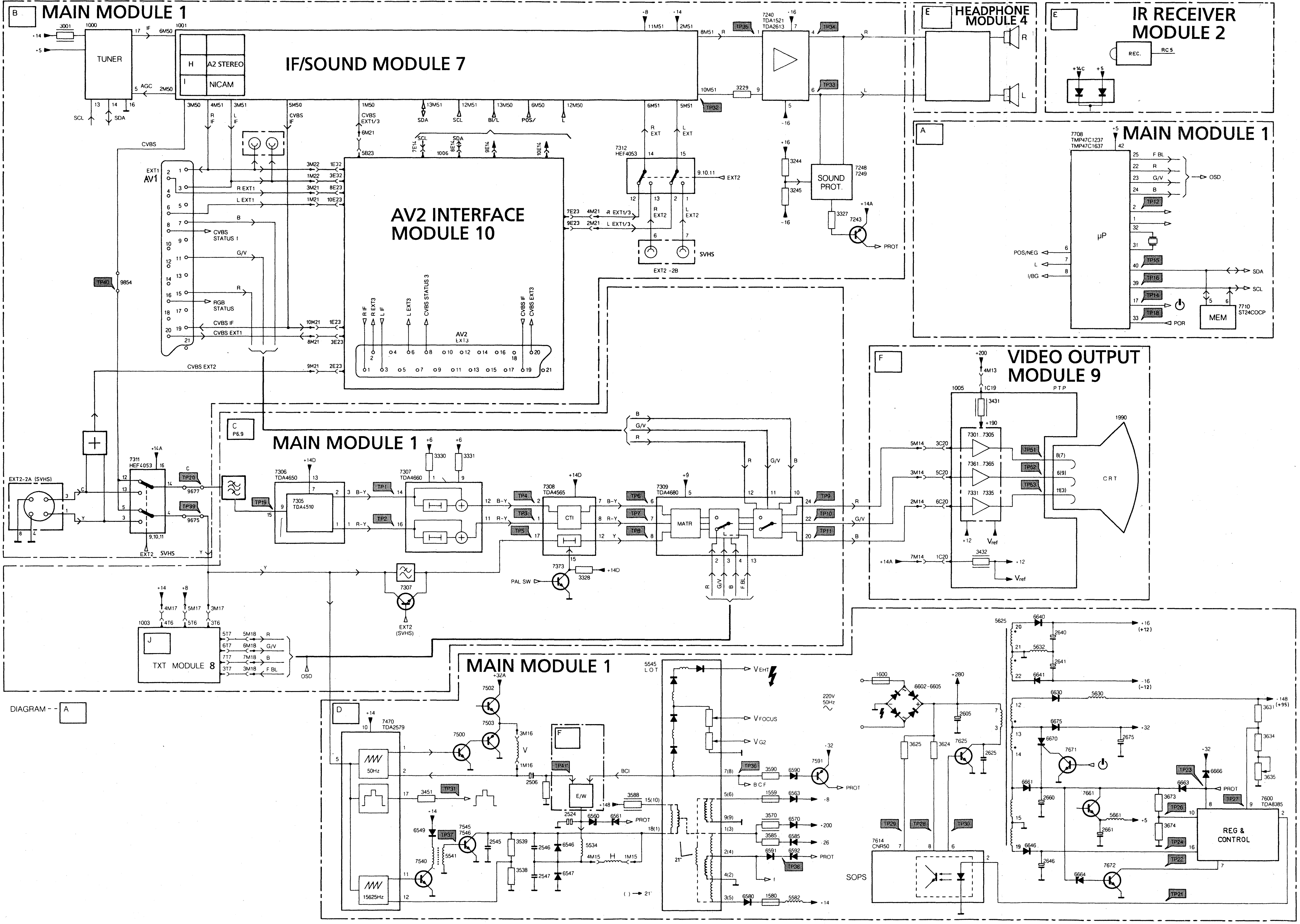


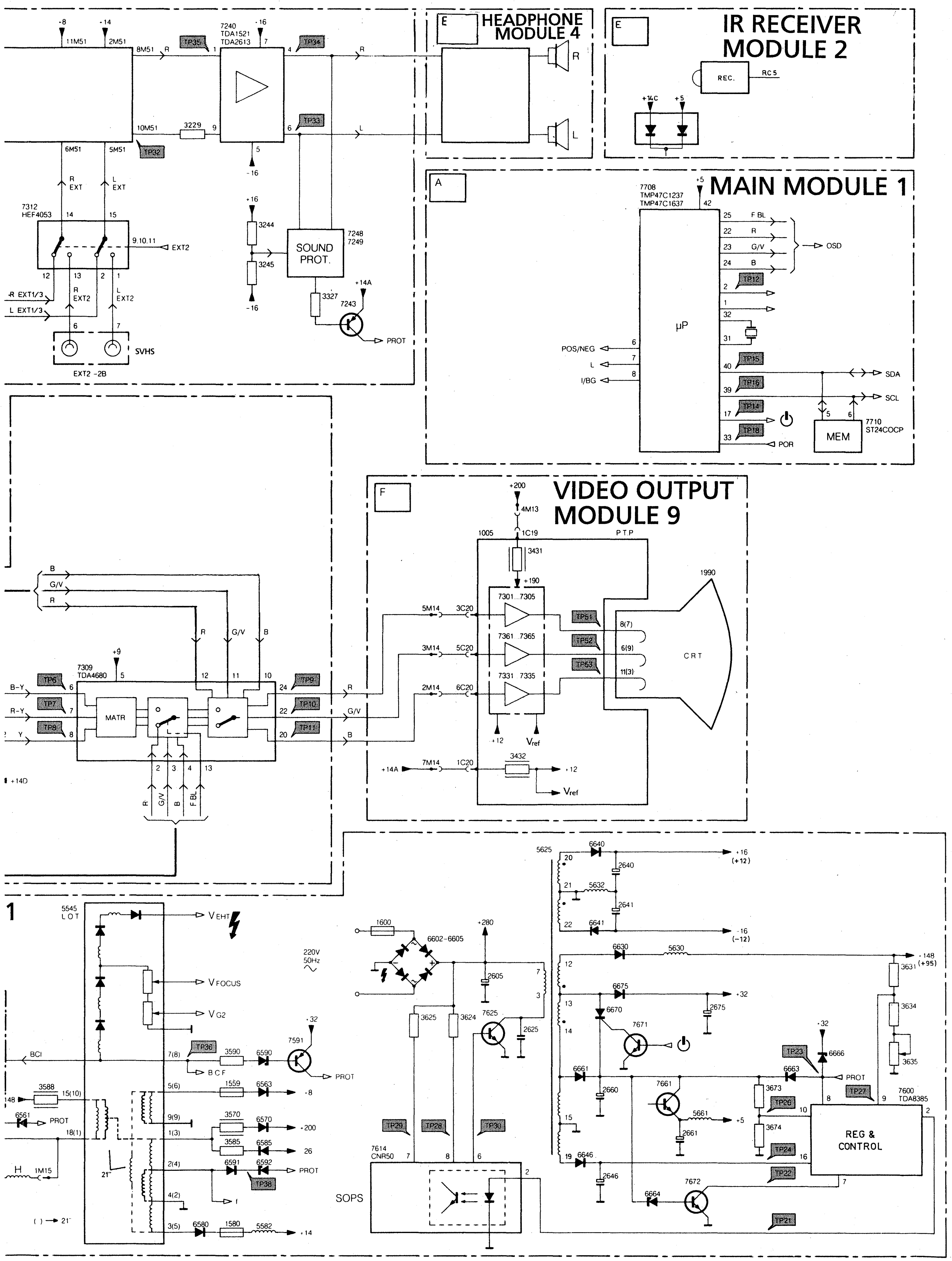
TP 52
120 V_{pp}
115 V_{pp} for 21"

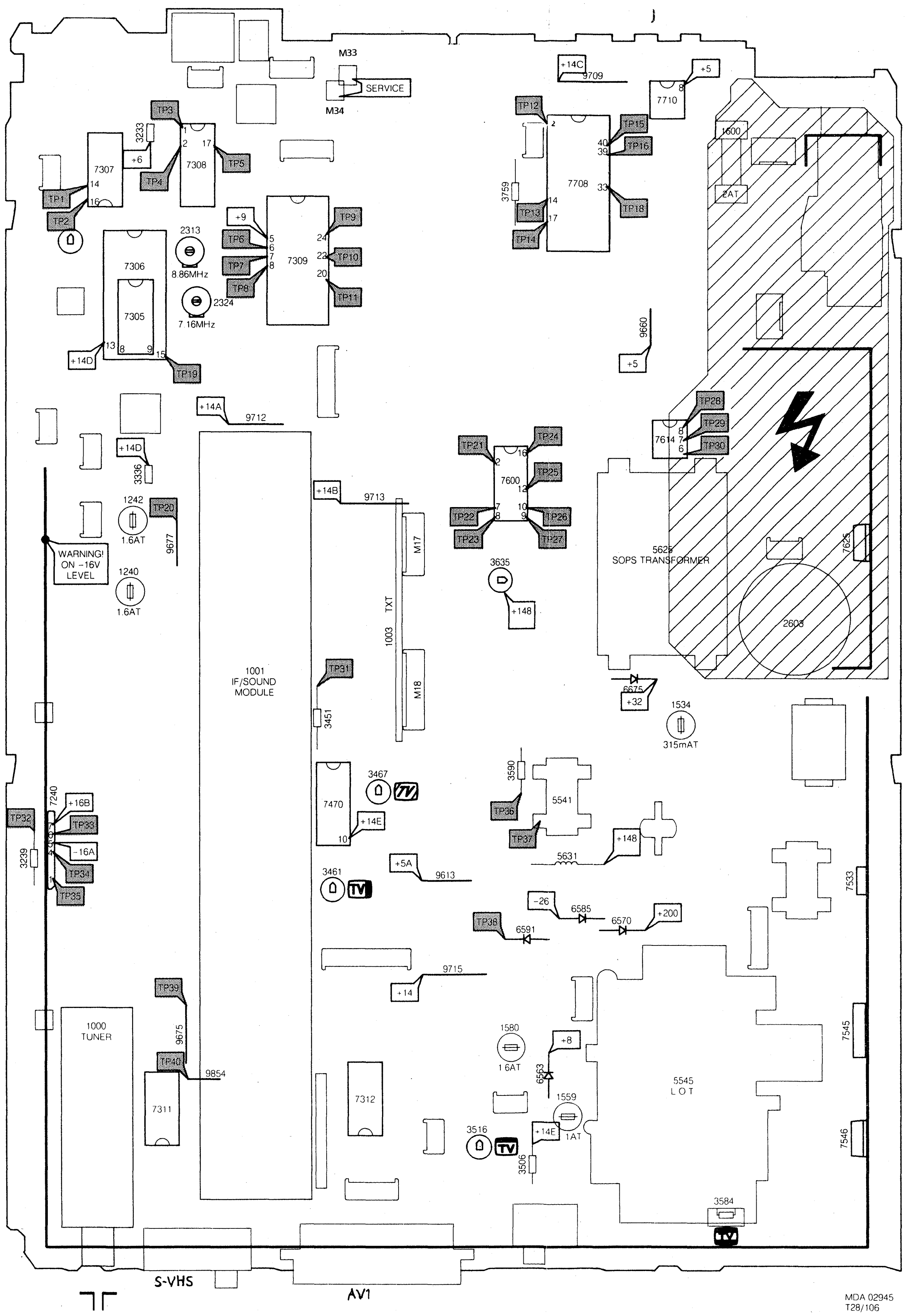


TP 53
120 V_{pp}
110 V_{pp} for 21"

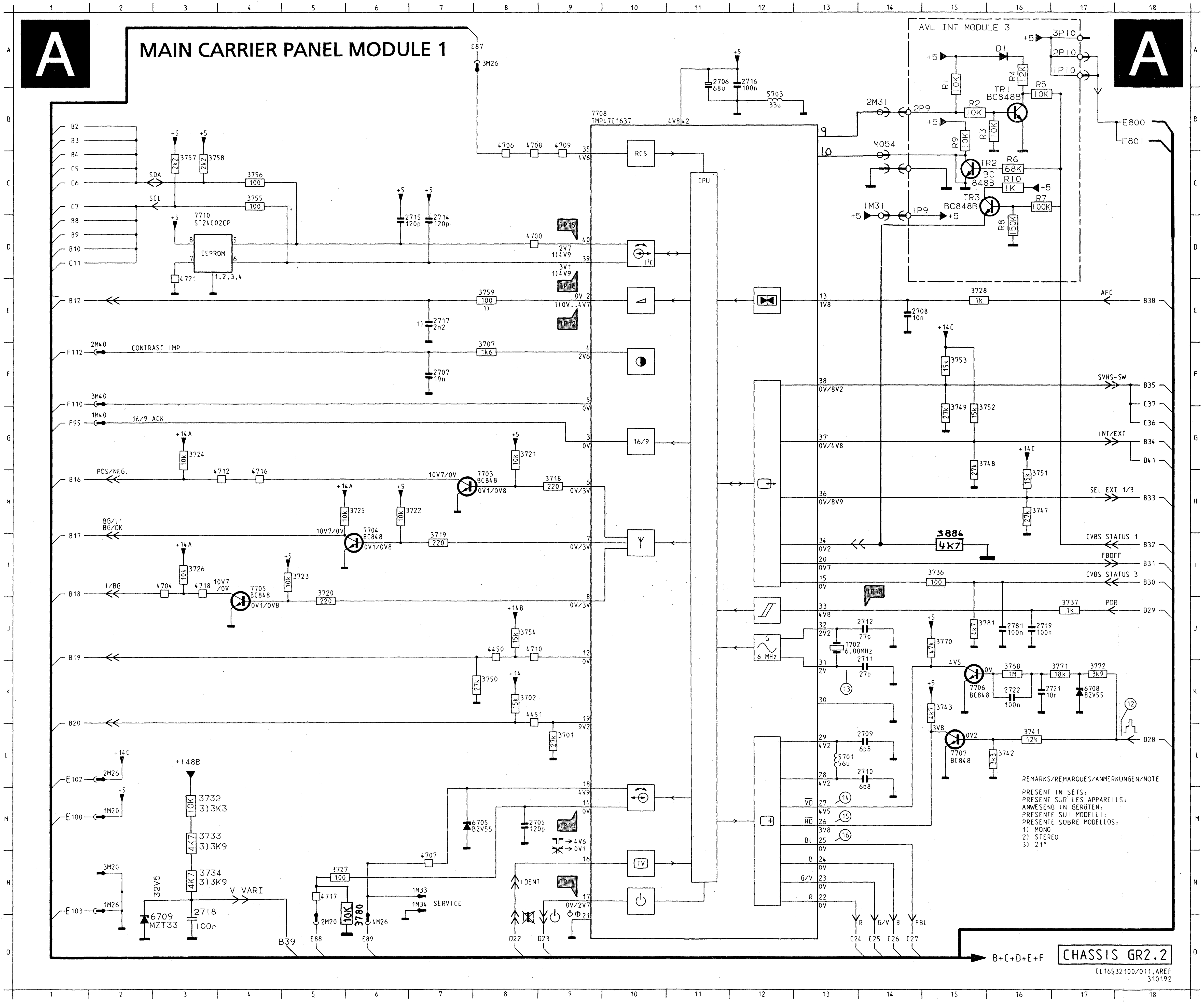
Blockdiagram / Blockschaltbild / Schéma-bloc


B MAIN MODULE 1
TUNER
IF/SOUND MODULE 7
H A2 STEREO
I NICAM
AV2 INTERFACE MODULE 10
EXT1 AV1
AV2 EXT3
EXT2 -2B
SVHS
7312 HEF4053
SOUND PROT.
7240 TDA1521 TDA2613
E HEADPHONE MODULE 4
E IR RECEIVER MODULE 2
REC.
RC5
A MAIN MODULE 1
7708 TMP47C1237 TMP47C1637
µP
OSD
POS/NEG
SDA
SCL
POR
MEM
7710 ST24C02CP
F VIDEO OUTPUT MODULE 9
CRT
C P6.9 MAIN MODULE 1
7311 HEF4053
EXT2-2A (SVHS)
7306 TDA4650
7305 TDA4510
7307 TDA4660
7308 TDA4565
CTI
7309 TDA4680
MATR
PAL SW
EXT2 (SVHS)
J TXT MODULE 8
OSD
DIAGRAM - - A
MAIN MODULE 1
D
7470 TDA2579
50Hz
15625Hz
E/W
5545 LOT
VEHT
VFOCUS
VG2
BCF
PROT
220V 50Hz
7614 CNR50
SOPS
7600 TDA8385
REG & CONTROL

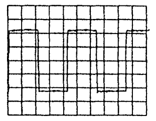

HEADPHONE MODULE 4
IR RECEIVER MODULE 2
MAIN MODULE 1
VIDEO OUTPUT MODULE 9
SOUND PROT.
7240 TDA1521 TDA2613
7312 HEF4053
7708 TMP47C1237 TMP47C1637
µP
MEM
7710 ST24C0CP
OSD
SDA
SCL
POR
POS/NEG
I/BG
7309 TDA4680
MATR
CRT
1990
SVHS
EXT2 -2B
R EXT1/3
L EXT1/3
PROT
REC.
RC5
5545 LOT
V EHT
V FOCUS
V G2
BCI
BCF
SOPS
7614 CNR50
7600 TDA8385
REG & CONTROL
220V 50Hz
6602-6605
1600
5625
TP1–TP53

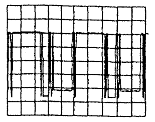

M33
SERVICE
M34
8.86MHz
7.16MHz
1600
2AT
1.6AT
1.6AT
WARNING! ON -16V LEVEL
1001 IF/SOUND MODULE
TXT
M17
M18
5625 SOPS TRANSFORMER
1534
315mAT
1000 TUNER
1580
1.6AT
1559
1AT
5545 LOT
S-VHS
AV1
MDA 02945 T28/106

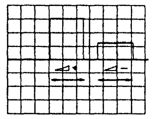
MAIN CARRIER PANEL MODULE 1

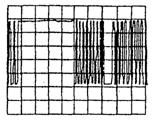

A
E87
3M26
B2
B3
B4
C5
C6
C7
B8
B9
B10
C11
SDA
SCL
3757 2k2
3758 2k2
3756 100
3755 100
7710 S*24C02CP
EEPROM
4721
1,2,3,4
2715 120p
2714 120p
TP15
TP16
TP12
TP13
TP14
TP18
4706
4708
4709
4700
2V7 1)4V9
3V1 1)4V9
B12
3759 100
OV 2
1)0V..4V7
2717 2n2
F112
2M40
CONTRAST IMP
3707 1k6
2707 10n
2V6
F110
3M40
F95
1M40
16/9 ACK
3724 10k
+14A
B16
POS/NEG.
4712
4716
10V7/0V
7703 BC848
0V1/0V8
3721 10k
3718 220
0V/3V
B17
BG/L'
BG/DK
3725 10k
3722 10k
7704 BC848
3719 220
B18
I/BG
4704
4718
10V7 /0V
7705 BC848
3726 10k
3723 10k
3720 220
B19
4450
3754 15k
4710
+14B
3750 27k
3702 15k
B20
4451
3701 27k
9V2
E102
2M26
+14C
E100
1M20
E103
3M20
1M26
+14BB
3732 10K 3)3K3
3733 4K7 3)3K9
3734 4K7 3)3K9
32V5
6709 MZT33
2718 100n
V VARI
B39
3727 100
4717
4707
1M33
1M34
SERVICE
2M20
3780 10K
4M26
E88
E89
6705 BZV55
2705 120p
4V6
0V1
IDENT
D22
D23
0V/2V7
7708 TMP47C1637
4V8
42
2706 68u
2716 100n
5703 33u
+5
RCS
CPU
I²C
16/9
TV
AVL INT MODULE 3
3P10
2P10
1P10
D1
R1 10K
R4 12K
TR1 BC848B
R5 10K
R2 10K
R3 10K
R9 10K
2M31
2P9
M054
TR2 BC 848B
R6 68K
R10 1K
TR3 BC848B
R7 100K
R8 150K
1M31
1P9
E800
E801
3728 1k
AFC
B38
2708 10n
1V8
+14C
3753 15k
3749 27k
3752 15k
3748 27k
3751 15k
3747 27k
0V/8V2
0V/4V8
0V/8V9
SVHS-SW
B35
C37
C36
INT/EXT
B34
D41
SEL EXT 1/3
B33
3886 4K7
CVBS STATUS 1
B32
FBOFF
B31
3736 100
CVBS STATUS 3
B30
3737 1k
POR
D29
3781 4k7
2781 100n
2719 100n
2712 27p
1702 6.00MHz
2711 27p
6 MHz
3770 47k
7706 BC848
3768 1M
3771 18k
3772 3k9
2722 100n
2721 10n
6708 BZV55
3743 4k7
7707 BC848
3741 12k
3742 3k3
D28
2709 6p8
5701 56u
2710 6p8
VD
HD
BL
B
G/V
R
FBL
C24
C25
C26
C27
B+C+D+E+F
CHASSIS GR2.2
CL 16532100/011.AREF
310192
REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) MONO
2) STEREO
3) 21"

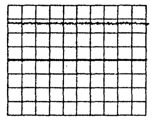
1003	A 5
1702	J13
1986	A 3
2M31	C 9
2704	N 4
2705	M 8
2706	A11
2707	F 7
2708	E14
2709	L14
2710	L14
2711	K14
2712	J14
2713	B 7
2714	D 7
2715	D 6
2716	A12
2717	E 7
2718	D16
2719	J16
2721	K16
2722	K16
2781	J16
3701	L 9
3702	K 8
3707	F 8
3718	H 9
3719	I 7
3720	I 5
3721	G 8
3722	H 6
3723	I 5
3724	G 3
3725	H 6
3726	I 3
3727	N 5
3728	E15
3729	L 6
3730	L 6
3732	B16
3733	C16
3734	C16
3736	I15
3737	J17
3741	L16
3742	L16
3743	K15
3747	H16
3748	G15
3749	F15
3750	K 8
3751	H16
3752	F15
3753	F15
3754	J 8
3755	C 4
3756	C 4
3757	C 3
3758	C 3
3759	E 8
3768	K16
3770	J15
3771	K17
3772	K17
3775	L 5
3776	L 4
3777	L 4
3778	L 3
3779	L 3
3780	N 3
3781	J15
41	M 3
4450	J 8
4451	K 8
4700	D 8
4704	I 3
4706	B 8
4707	N 7
4708	B 8
4709	B 9
4710	J 8
4712	H 4
4716	H 4
4717	N 5
4718	I 3
4721	E 3
5701	L13
5703	B12
6705	M 7
6707	M
6708	K1
6709	D1
7703	H
7704	I
7705	I
7706	K1
7707	L1
7708	B
7710	D
8115	F

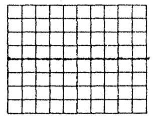

TP 12
1 V/div AC
10 μS/div

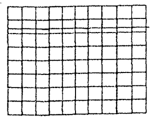

TP 15
1 V/div AC
0,2 mS/div

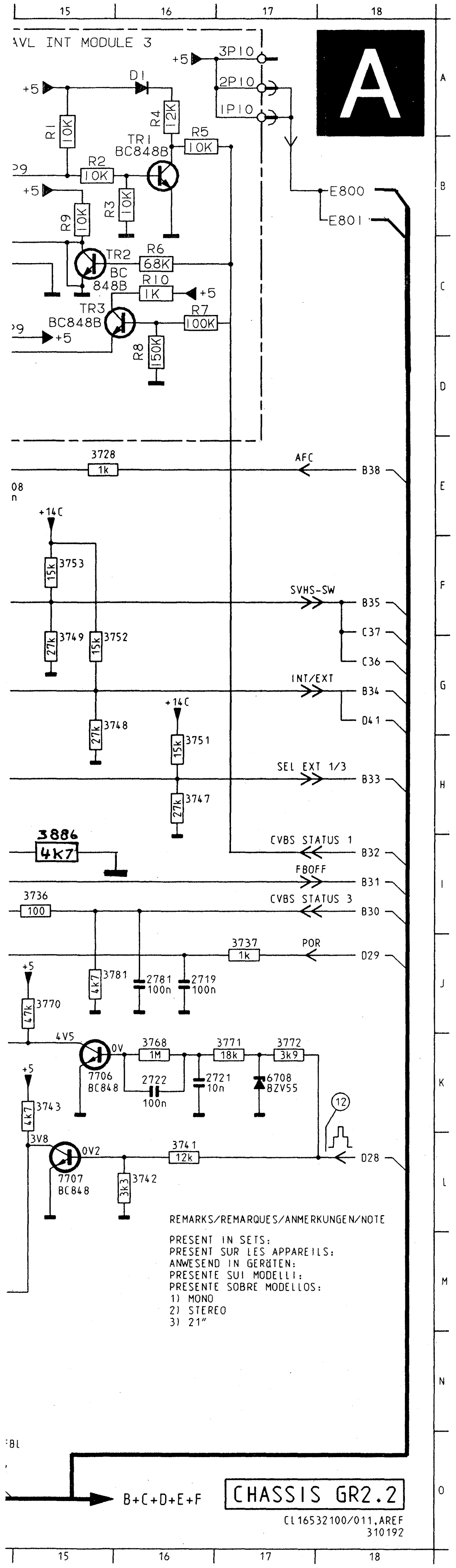

TP 13
1 V/div DC
1 S/div


TP 16
1 V/div DC
0,1 mS/div


TP 14
1 V/div DC
0,5 mS/div


TP 14 ⏻
0,2 V/div DC
0,5 mS/div


TP 18
2 V/div DC
20 mS/div


AVL INT MODULE 3
A
3P10
2P10
1P10
E800
E801
D1
R1 10K
R2 10K
R3 10K
R4 12K
R5 10K
R6 68K
R7 100K
R8 150K
R9 10K
R10 1K
TR1 BC848B
TR2 BC848B
TR3 BC848B
+5
3728 1k
AFC
B38
+14C
3753 15k
3749 27k
3752 15k
3748 27k
3751 15k
3747 27k
SVHS-SW
B35
C37
C36
INT/EXT
B34
D41
SEL EXT 1/3
B33
3886 4K7
CVBS STATUS 1
B32
FBOFF
B31
3736 100
CVBS STATUS 3
B30
3737 1k
POR
D29
3770 47k
3781 4k7
2781 100n
2719 100n
4V5
7706 BC848
3768 1M
3771 18k
3772 3k9
2722 100n
2721 10n
6708 BZV55
3743 4k7
3V8
0V2
7707 BC848
3741 12k
3742 3k3
⑫
D28
B+C+D+E+F
15
16
17
18

REMARKS/REMARQUES/ANMERKUNGEN/NOTE
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:
1) MONO
2) STEREO
3) 21"

CHASSIS GR2.2

CL 16532100/011.AREF
310192

1003	A 5
1702	J13
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2707	F 7
2708	E14
2709	L14
2710	L14
2711	K14
2712	J14
2713	B 7
2714	D 7
2715	D 6
2716	A12
2717	E 7
2718	D16
2719	J16
2721	K16
2722	K16
2781	J16
3701	L 9
3702	K 8
3707	F 8
3718	H 9
3719	I 7
3720	I 5
3721	G 8
3722	H 6
3723	I 5
3724	G 3
3725	H 6
3726	I 3
3727	N 5
3728	E15
3729	L 6
3730	L 6
3732	B16
3733	C16
3734	C16
3736	I15
3737	J17
3741	L16
3742	L16
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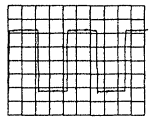
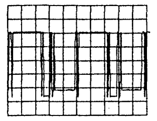
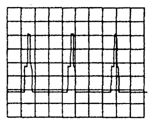
3747	H16
3748	G15
3749	F15
3750	K 8
3751	H16
3752	F15
3753	F15
3754	J 8
3755	C 4
3756	C 4
3757	C 3
3758	C 3
3759	E 8
3768	K16
3770	J15
3771	K17
3772	K17
3775	L 5
3776	L 4
3777	L 4
3778	L 3
3779	L 3
3780	N 3
3781	J15
41	M 3
4450	J 8
4451	K 8
4700	D 8
4704	I 3
4706	B 8
4707	N 7
4708	B 8
4709	B 9
4710	J 8
4712	H 4
4716	H 4
4717	N 5
4718	I 3
4721	E 3
5701	L13
5703	B12
6705	M 7
6707	M
6708	K1
6709	D1
7703	H
7704	I
7705	I
7706	K1
7707	L1
7708	B
7710	D
8115	F



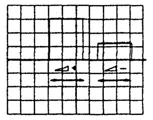
TP 12
1 V/div AC
10 μS/div



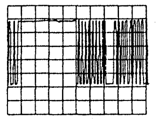
TP 15
1 V/div AC
0,2 mS/div



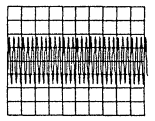
⑫
2 V/div AC
20 μS/div



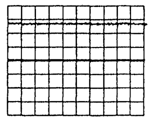
TP 13
1 V/div DC
1 S/div



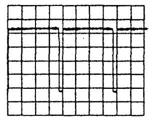
TP 16
1 V/div DC
0,1 mS/div



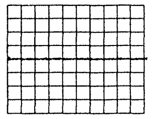
⑬
1 V/div AC
0,5 μS/div



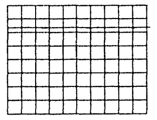
TP 14
1 V/div DC
0,5 mS/div



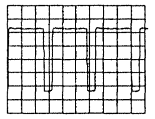
⑭
1 V/div AC
5 mS/div



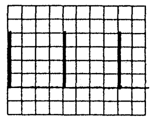
TP 14 ⏻
0,2 V/div DC
0,5 mS/div



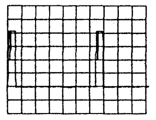
TP 18
2 V/div DC
20 mS/div



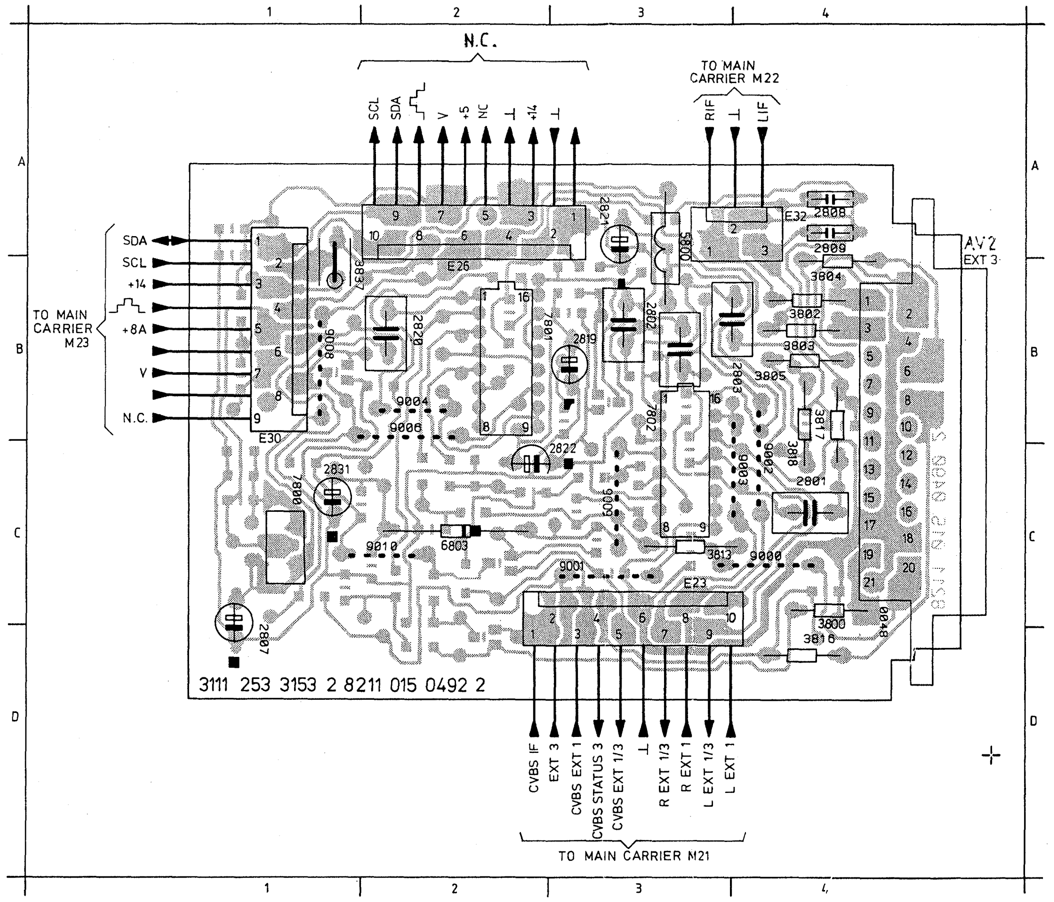
⑮
1 V/div AC
20 μS/div

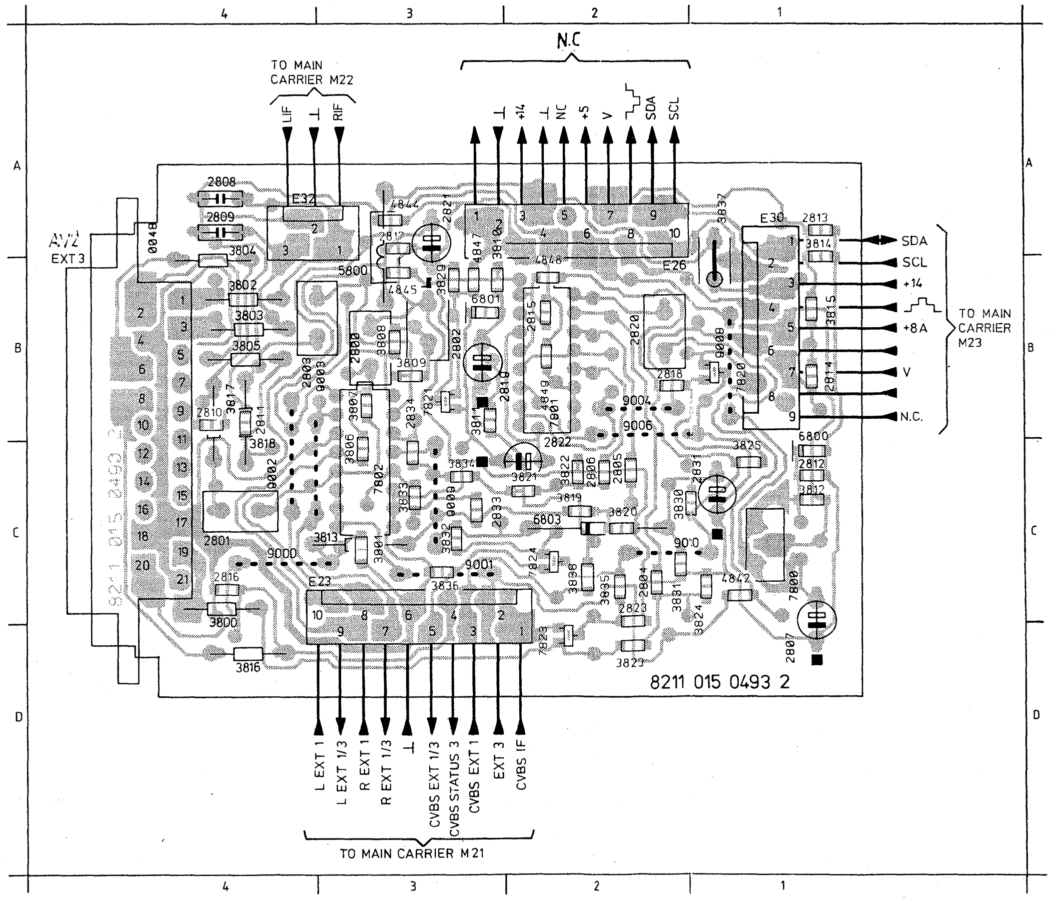


⑯
0,5 V/div AC
5 mS/div

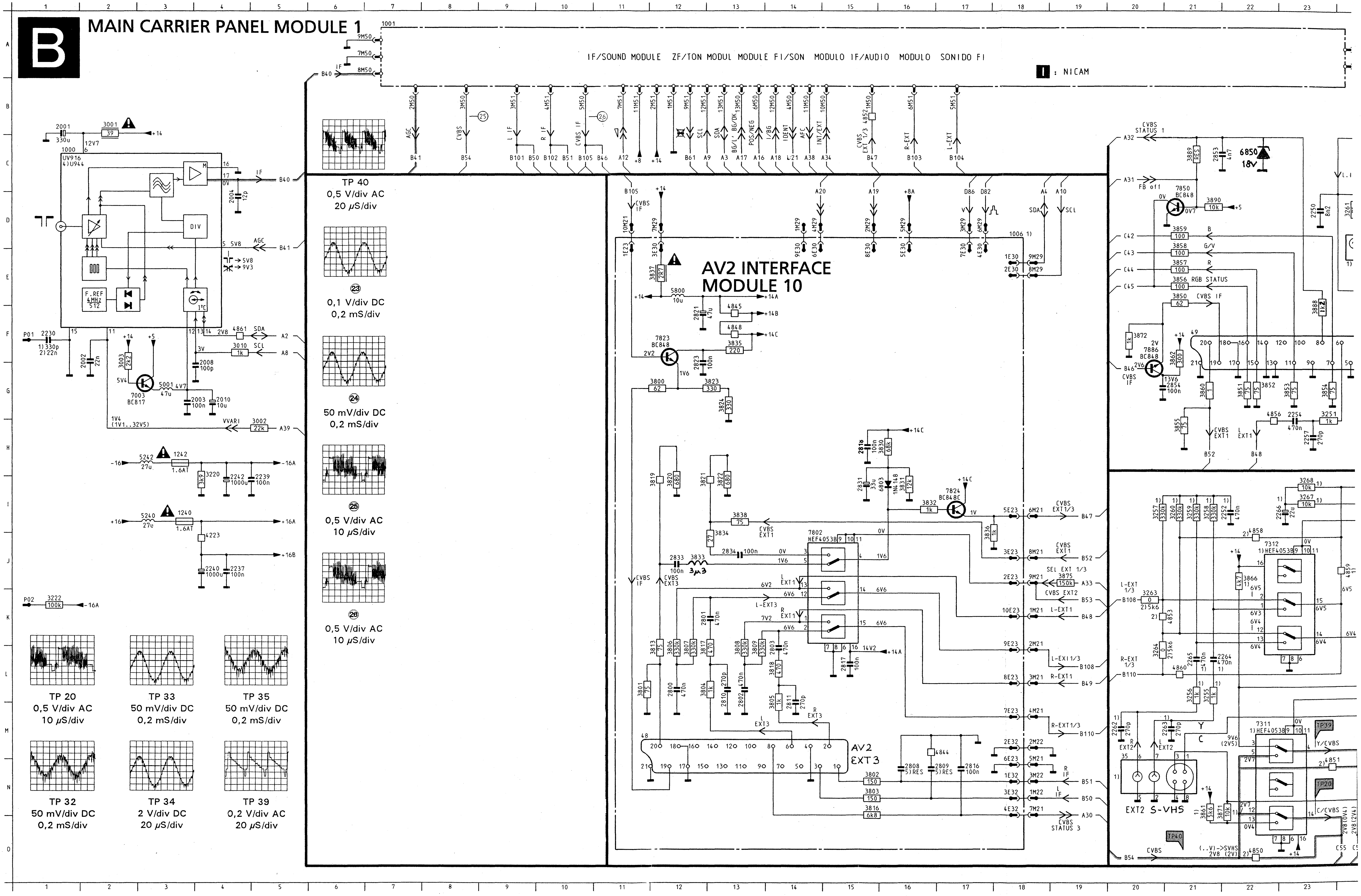


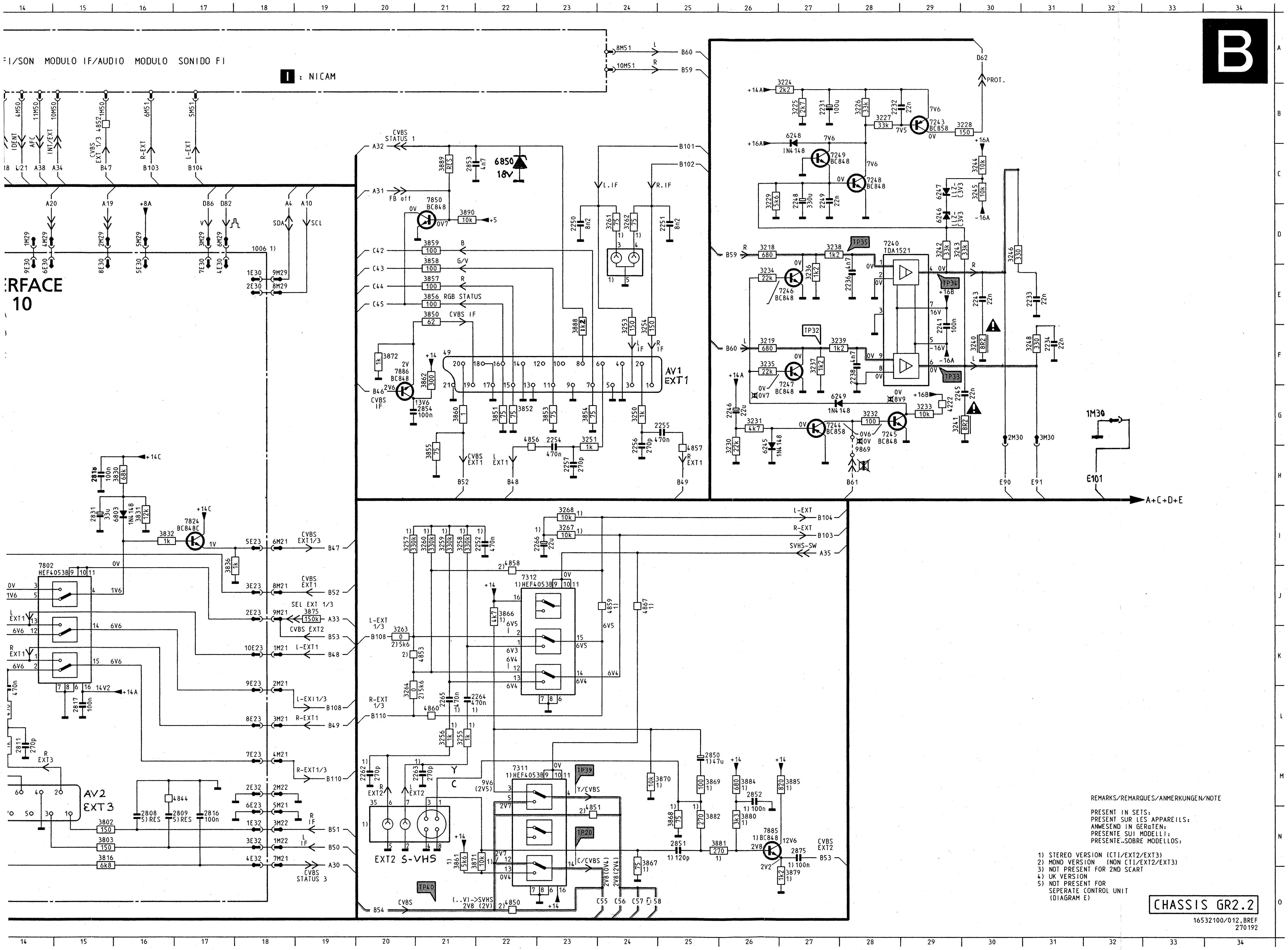
⑱
1 V/div AC
10 μS/div


N.C.
TO MAIN CARRIER M22
SCL
SDA
V
+5
NC
+14
RIF
LIF
SDA
SCL
+14
+8A
V
N.C.
TO MAIN CARRIER M23
AV2 EXT 3
E23
E26
E30
E32
3111 253 3153 2 8211 015 0492 2
CVBS IF
EXT 3
CVBS EXT 1
CVBS STATUS 3
CVBS EXT 1/3
R EXT 1/3
R EXT 1
L EXT 1/3
L EXT 1
TO MAIN CARRIER M21
A
B
C
D
1
2
3
4


N.C
TO MAIN CARRIER M22
LIF
RIF
+14
NC
+5
V
SDA
SCL
AV2 EXT 3
E32
E26
E30
E23
SDA
SCL
+14
+8A
V
N.C.
TO MAIN CARRIER M23
8211 015 0493 2
L EXT 1
L EXT 1/3
R EXT 1
R EXT 1/3
CVBS EXT 1/3
CVBS STATUS 3
CVBS EXT 1
EXT 3
CVBS IF
TO MAIN CARRIER M21
A
B
C
D
4
3
2
1

E23	D3
E26	A2
E30	B1
E32	A3
0048	C4
2800	B3
2801	C4
2802	B3
2803	B4
2804	D2
2805	C2
2806	C2
2807	D1
2808	A4
2809	B4
2810	C4
2811	C4
2812	C1
2813	B1
2814	B1
2815	B2
2816	D4
2817	B3
2818	C2
2819	B3
2820	B2
2821	B3
2822	C2
2823	D2
2831	C1
2833	C3
2834	C3
3800	D4
3801	C3
3802	B4
3803	B4
3804	B4
3805	B4
3806	C3
3807	C3
3808	B3
3809	B3
3810	B3
3811	C3
3812	C1
3813	C3
3815	B1
3816	D4
3817	C4
3818	C4
3819	C2
3820	C2
3821	C2
3822	C2
3823	D2
3824	D1
3825	C1
3829	B3
3830	C2
3831	C2
3832	C3
3833	C3
3834	C3
3835	D2
3836	D3
3837	B1
3838	D2
4800	A4
4842	D1
4844	B3
4845	B3
4847	B3
4848	B2
4849	B2
5800	B3
6800	C1
6801	B3
6803	C2
7800	C1
7801	B2
7802	C3
7820	B1
7821	C3
7823	D2
7824	C2
9000	C4
9001	D3
9002	C4
9003	C4
9004	C2
9006	C2
9008	B1
9009	C3
9010	C2


B
MAIN CARRIER PANEL MODULE 1
IF/SOUND MODULE ZF/TON MODUL MODULE FI/SON MODULO IF/AUDIO MODULO SONIDO FI
I : NICAM
AV2 INTERFACE MODULE 10
UV916
4) U944
F.REF 4MHz 512
DIV
7003 BC817
7823 BC848
7824 BC848C
7850 BC848
7886 BC848
7802 HEF4053B
7312 1) HEF4053B
7311 1) HEF4053B
AV2 EXT3
EXT2 S-VHS
6850 18V
CVBS STATUS 1
FB off
RGB STATUS
CVBS IF
CVBS EXT1
SEL EXT 1/3
CVBS EXT2
L-EXT1
L-EXT1/3
R-EXT1
R-EXT1/3
CVBS STATUS 3
(..V)->SVHS
TP 40
0,5 V/div AC
20 µS/div
㉓
0,1 V/div DC
0,2 mS/div
㉔
50 mV/div DC
0,2 mS/div
㉕
0,5 V/div AC
10 µS/div
㉖
0,5 V/div AC
10 µS/div
TP 20
0,5 V/div AC
10 µS/div
TP 33
50 mV/div DC
0,2 mS/div
TP 35
50 mV/div DC
0,2 mS/div
TP 32
50 mV/div DC
0,2 mS/div
TP 34
2 V/div DC
20 µS/div
TP 39
0,2 V/div AC
20 µS/div
TP39
TP20
TP40
Y/CVBS
C/CVBS
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23
A B C D E F G H I J K L M N O


B
FI/SON MODULO IF/AUDIO MODULO SONIDO FI
I : NICAM
8MS1 L B60
10MS1 R B59
IDENT AFC INT/EXT CVBS EXT1/3 R-EXT L-EXT
RFACE 10
CVBS STATUS 1 A32
A31 FB off
7850 BC848
6850 18V
AV1 EXT1
L.IF R.IF
B101 B102
SDA SCL
C42 C43 C44 C45
3856 RGB STATUS
3850 CVBS IF
CVBS EXT1 B52
B48 B49
7240 TDA1521
PROT. D62
TP35 TP34 TP32 TP33
7243 BC858 7249 BC848 7248 BC848 7246 BC848 7247 BC848 7244 BC858 7245 BC848
E90 E91 E101
A+C+D+E
1M30 2M30 3M30
7802 HEF4053B
7824 BC848C
L-EXT B104
R-EXT B103
SVHS-SW A35
7312 HEF4053B
7311 HEF4053B
CVBS EXT1/3 B47
CVBS EXT1 B52
SEL EXT 1/3 A33
CVBS EXT2 B53
L-EXT1 B48
L-EXT1/3 B108
R-EXT1 B49
R-EXT1/3 B110
AV2 EXT3
R IF B51
L IF B50
CVBS STATUS 3 A30
EXT2 S-VHS
Y C Y/CVBS C/CVBS
TP39 TP20 TP40
(..V)->SVHS 2V8 (2V)
7885 BC848 CVBS EXT2 B53
CVBS B54
C55 C56 C57 C58
14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
A B C D E F G H I J K L M N O

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERaTEN:
PRESENTE SUI MODELLI:
PRESENTE..SOBRE MODELLOS:

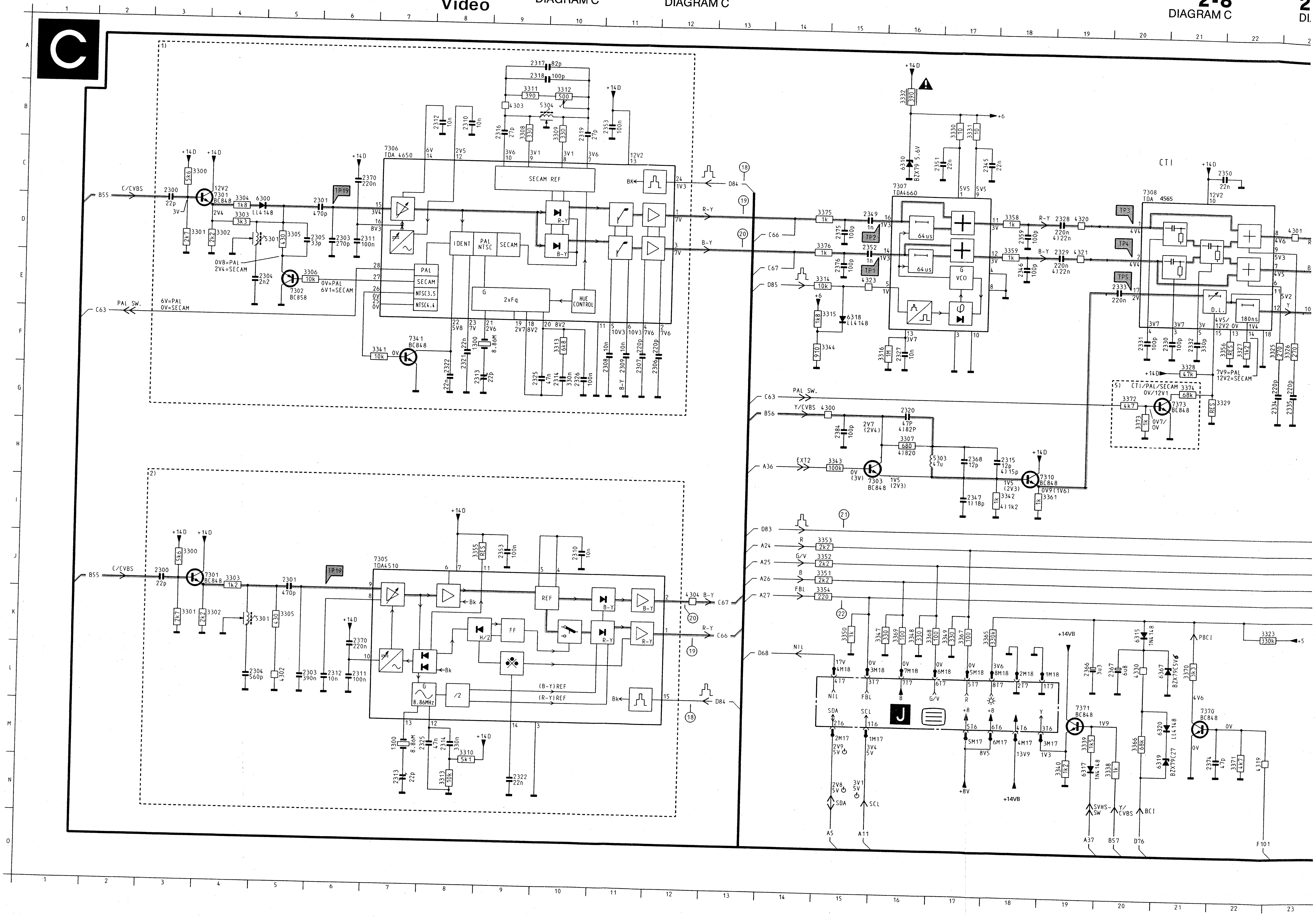
1) STEREO VERSION (CTI/EXT2/EXT3)
2) MONO VERSION (NON CTI/EXT2/EXT3)
3) NOT PRESENT FOR 2ND SCART
4) UK VERSION
5) NOT PRESENT FOR
SEPERATE CONTROL UNIT
(DIAGRAM E)

CHASSIS GR2.2

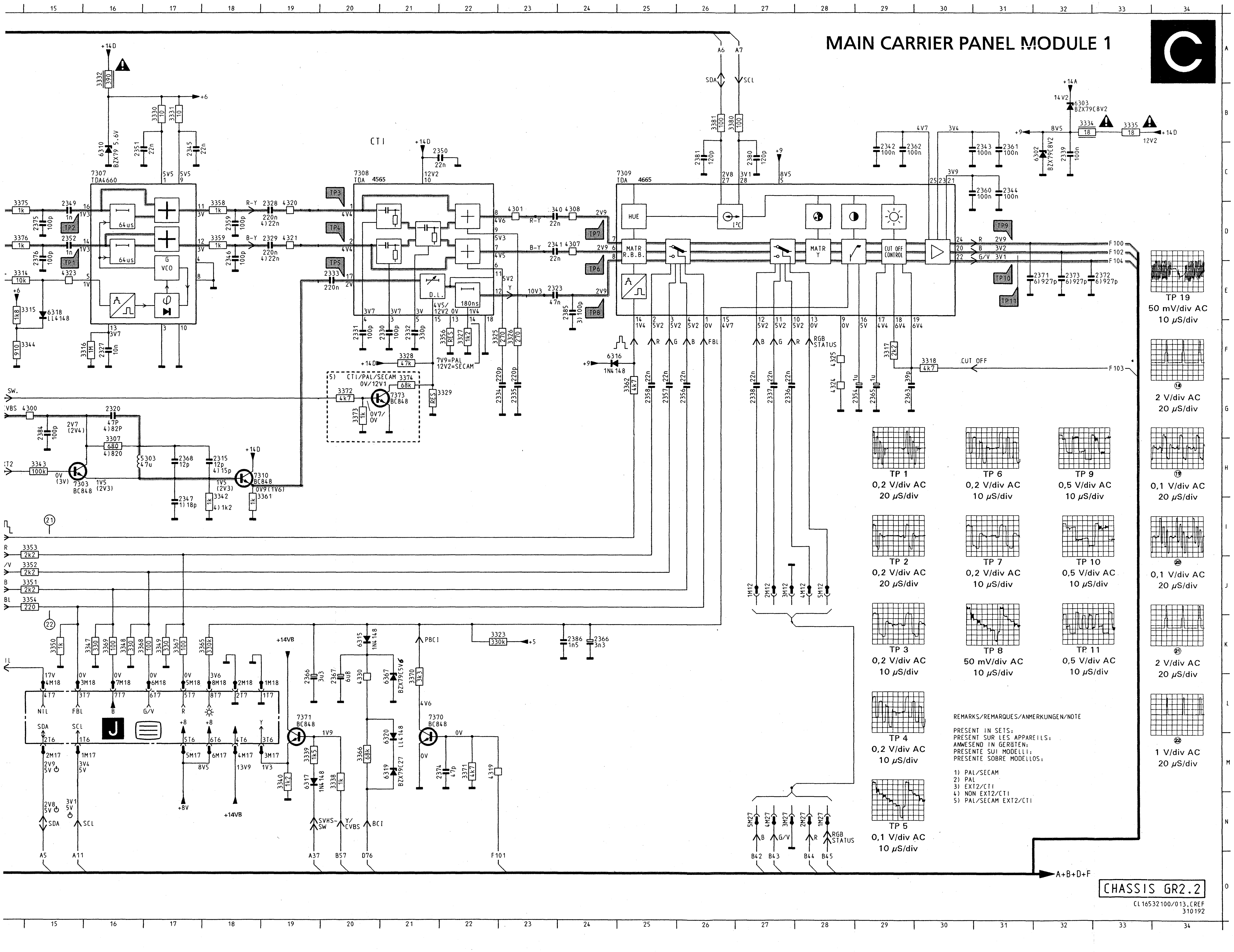
16532100/012,BREF
270192

1000	C 1	3258	I21
1240	I 3	3259	I21
1242	H 3	3260	I21
2001	B 1	3261	D24
2002	F 2	3262	D24
2003	G 3	3263	K20
2004	D 4	3264	L20
2008	G 4	3265	H22
2010	G 4	3266	H25
2230	F 1	3267	I23
2231	J29	3268	I23
2231	B27	3386	C20
2232	J30	3850	E21
2232	B28	3851	G22
2233	E31	3852	G22
2234	M32	3853	G23
2234	F31	3854	G23
2235	O29	3855	H21
2236	E28	3856	E21
2237	J 4	3857	E21
2238	M30	3858	D21
2238	F28	3859	D21
2239	I 5	3860	G21
2240	J 4	3861	O21
2241	L31	3862	F21
2241	F29	3866	J22
2242	I 4	3867	O24
2243	E30	3868	N25
2244	F33	3869	M25
2245	M31	3870	M24
2245	G29	3871	N22
2246	O28	3872	F20
2246	G26	3874	H20
2247	D33	3879	O27
2248	L29	3880	N26
2248	C27	3881	N25
2249	L29	3882	N25
2249	C27	3884	M26
2250	D23	3885	M27
2251	D25	3887	B21
2252	I22	3888	F23
2254	G23	3889	C21
2255	G25	3890	D21
2256	H24	39	C31
2257	H23	39	J33
2262	M20	4222	G29
2263	M21	4223	J 4
2264	L21	4224	C32
2265	L21	4233	N29
2266	I23	4237	N29
2850	M25	4239	L32
2851	N25	4850	O22
2852	M26	4851	N23
2853	C21	4853	K21
2854	G21	4856	G22
2875	N27	4857	H25
3001	B 2	4858	J22
3002	H 5	4859	J24
3003	F 2	4860	L21
3010	F 4	4861	F 4
3218	D26	4867	J24
3219	M29	49	F21
3219	F26	5001	G 3
3220	H 4	5240	I 3
3221	N29	5242	H 3
3222	K 1	6245	H26
3224	I29	6246	L32
3224	B27	6246	D29
3225	J29	6247	L32
3225	B27	6247	C29
3226	J30	6248	B27
3226	B28	6248	J29
3227	J30	6249	G27
3227	B28	7003	G 3
3228	J32	7240	L30
3228	B30	7240	D28
3229	L28	7243	J31
3229	C26	7243	B29
3230	O29	7244	O30
3230	H26	7244	G27
3231	O29	7245	G28
3231	G26	7246	E27
3232	N30	7247	M29
3232	G28	7247	F27
3233	G29	7248	L30
3234	E26	7248	C28
3235	F26	7249	K29
3236	E27	7249	C27
3237	M29	7311	M22
3237	F27	7312	J22
3238	D27	7850	C21
3239	M30	7885	N26
3239	F27	7886	F20
3240	F30	9244	F33
3241	N31	9245	E33
3241	G29	9246	F33
3242	D29	9247	D33
3243	D29	9248	D32
3243	M31	9249	F32
3244	C30	9249	M34
3244	K32	9250	E34
3245	C30	9251	E33
3245	K32	9760	N29
3246	D30	9869	H28
3247	E30		
3248	M32		
3248	F31		
3249	M32		
3249	F30		
3250	G24		
3251	G23		
3253	F24		
3254	F24		
3255	L21		
3256	L21		
3257	I20		

Video


C
1)
2)
5)
7306
TDA 4650
7305
TDA4510
7307
TDA4660
7308
TDA 4565
CTI
SECAM REF
IDENT
PAL NTSC
SECAM
2xFq
HUE CONTROL
PAL
NTSC3.5
NTSC4.4
64us
VCO
D.L.
180ns
REF
FF
H/2
8.86MHz
/2
(B-Y) REF
(R-Y) REF
B55
C/CVBS
C63
PAL SW.
6V=PAL
0V=SECAM
0V8=PAL
2V4=SECAM
0V=PAL
6V1=SECAM
7301
BC848
7302
BC858
7341
BC848
7303
BC848
7310
BC848
7373
BC848
7371
BC848
7370
BC848
TP1
TP2
TP3
TP4
TP5
TP19
D84
C66
C67
D85
B56
Y/CVBS
A36
EXT2
D83
A24
A25
A26
A27
D68
NIL
CTI/PAL/SECAM
7V9=PAL
12V2=SECAM
SDA
SCL
FBL
G/V
R
B
Y
A5
A11
A37
B57
D76
F101
SVHS-SW
Y/CVBS
BCI
PBCI
+14VB
+14D
+8V
+6
+5
6310
BZX79 5.6V
6315
1N4148
6367
BZX79C5V6
6319
BZX79C27
6320
LL4148
6317
1N4148
6318
LL4148
6300
LL4148
R-Y
B-Y
8.86M

MAIN CARRIER PANEL MODULE 1


C
7307 TDA4660
7308 TDA 4565
7309 TDA 4665
CTI
HUE
MATR R.B.B.
MATR Y
CUT OFF CONTROL
D.L.
180ns
64us
VCO
I²C
SDA
SCL
A6
A7
TP1
TP2
TP3
TP4
TP5
TP6
TP7
TP8
TP9
TP10
TP11
5) CTI/PAL/SECAM
7V9=PAL
12V2=SECAM
CUT OFF
F 100
F 102
F 104
F 103
RGB STATUS
SVHS-SW
Y/CVBS
BCI
PBCI
A5
A11
A37
B57
D76
F101
B42
B43
B44
B45
A+B+D+F
TP 1
0,2 V/div AC
20 µS/div
TP 6
0,2 V/div AC
10 µS/div
TP 9
0,5 V/div AC
10 µS/div
TP 2
0,2 V/div AC
20 µS/div
TP 7
0,2 V/div AC
10 µS/div
TP 10
0,5 V/div AC
10 µS/div
TP 3
0,2 V/div AC
10 µS/div
TP 8
50 mV/div AC
10 µS/div
TP 11
0,5 V/div AC
10 µS/div
TP 4
0,2 V/div AC
10 µS/div
TP 5
0,1 V/div AC
10 µS/div
TP 19
50 mV/div AC
10 µS/div
⑱
2 V/div AC
20 µS/div
⑲
0,1 V/div AC
20 µS/div
⑳
0,1 V/div AC
20 µS/div
㉑
2 V/div AC
20 µS/div
㉒
1 V/div AC
20 µS/div

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

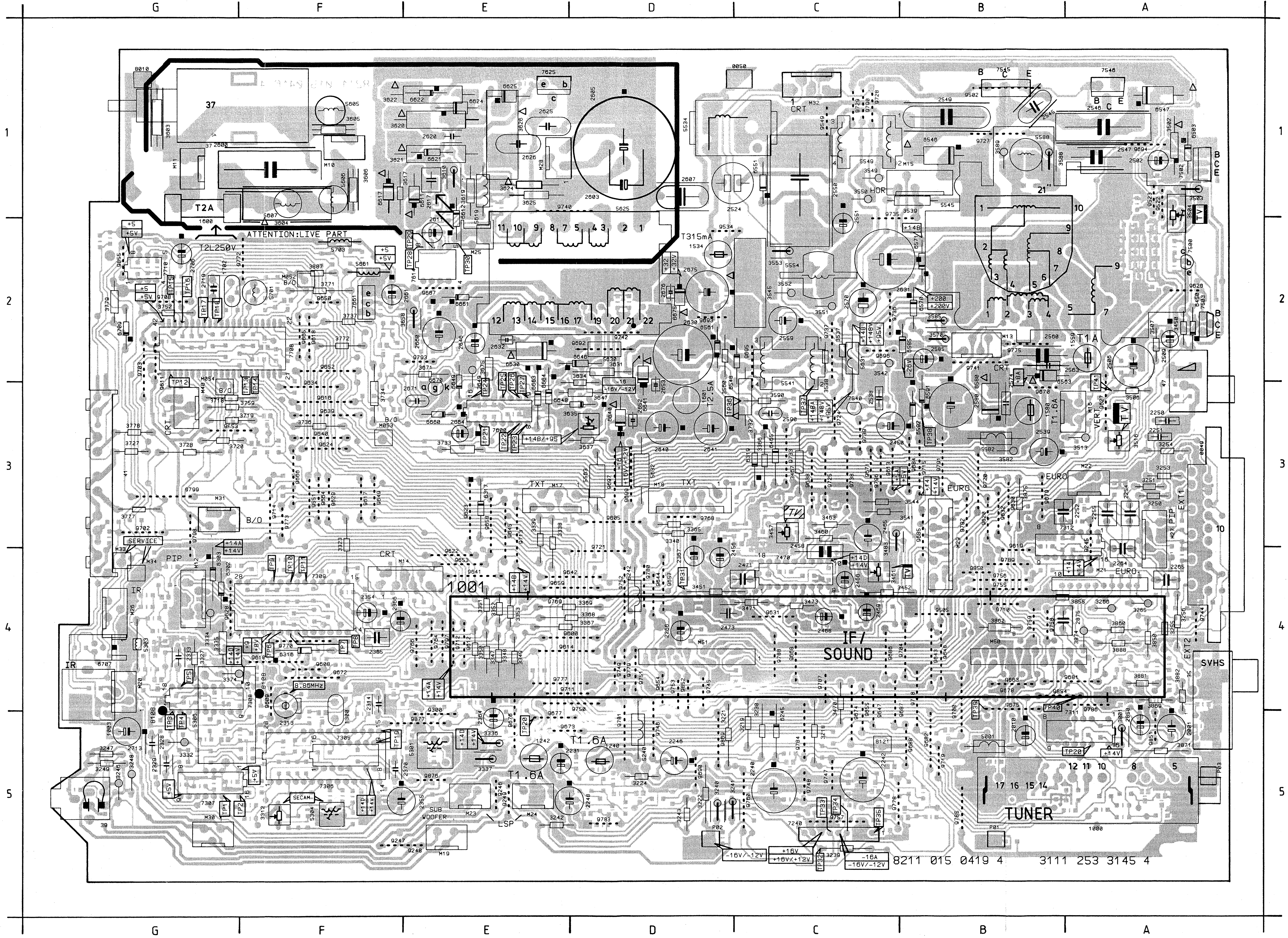
1) PAL/SECAM
2) PAL
3) EXT2/CTI
4) NON EXT2/CTI
5) PAL/SECAM EXT2/CTI

CHASSIS GR2.2

CL 16532100/013.CREF
310192

1300	F 8
1300	M 7
2300	C 3
2300	J 3
2301	D 6
2301	J 5
2303	D 6
2303	L 5
2304	E 4
2304	L 4
2305	D 5
2306	F12
2307	F11
2308	F11
2309	F11
2310	B 8
2310	J10
2311	D 6
2311	L 6
2312	B 8
2312	L 6
2313	G 8
2313	N 7
2314	G10
2314	M 8
2315	H18
2316	B 9
2317	A 9
2318	A 9
2319	B10
2320	G16
2321	F 8
2322	N 9
2322	G 8
2323	E23
2325	G 9
2325	M 8
2326	G10
2327	F16
2328	D19
2329	D19
2330	F21
2331	F20
2332	F21
2333	E20
2334	G23
2335	G23
2336	G27
2337	G27
2338	G27
2339	C32
2340	D23
2341	D23
2342	C29
2343	C31
2344	C31
2345	C17
2346	D18
2347	I17
2349	D15
2350	C22
2351	C16
2352	D15
2353	B11
2353	J 9
2354	G29
2356	G26
2357	G25
2358	G25
2359	D18
2360	C31
2361	C31
2362	C29
2363	G29
2365	G29
2366	L19
2366	K24
2367	L20
2368	H17
2370	C 6
2370	K 6
2371	E32
2372	E33
2373	E32
2374	M22
2375	D15
2376	D15
2380	C27
2381	C26
2384	G15
2385	E24
2386	K24
3300	C 3
3300	J 3
3301	D 3
3301	K 3
3302	D 4
3302	K 4
3303	D 4
3303	J 4
3304	D 4
3305	D 5
3305	K 5
3306	E 5
3307	H16
3308	B 9
3309	B10
3310	M 8
3311	B 9
3312	B10
3313	F10
3313	N 8
3314	E14
3315	E14
3316	F16
3317	F29
3318	F30
3323	K23
3325	F23
3326	F23
3327	F22
3328	F21
3329	G21
3330	B17
3331	B17
3332	A16
3334	B32
3335	B33
3338	M20
3339	M19
3340	M19
3341	F 7
3342	H18
3343	H15
3344	F14
3347	K16
3348	K16
3349	K17
3350	K15
3351	J15
3352	J15
3353	I15
3354	J15
3355	J 8
3356	F22
3357	H20
3358	D18
3359	D18
3360	I21
3361	H18
3362	G25
3365	K18
3366	M20
3367	K17
3368	K17
3369	K16
3370	L21
3371	M22
3372	G20
3373	G20
3374	G21
3375	D14
3376	D14
3380	B26
3381	B26
3394	M14
3395	M16
4300	G15
4301	D23
4303	B 9
4304	J12
4307	D24
4308	D24
4319	M22
4320	D19
4321	D19
4322	A21
4323	E15
4324	G28
4325	F28
4330	L20
5301	D 5
5301	K 5
5303	H16
5304	B 9
5306	H20
6300	D 4
6302	C32
6303	B32
6310	C16
6315	K20
6316	F24
6317	M19
6318	E15
6319	M21
6320	M21
6367	L21
7301	D 4
7301	J 4
7302	E 5
7303	H15
7305	J 7
7306	C 7
7307	C16
7308	C20
7309	C24
7310	H18
7341	F 7
7370	L21
7371	L19
7372	N15
7373	G21
7374	N16
8008	B21

MAIN CARRIER PANEL MODULE 1


G
F
E
D
C
B
A
1
2
3
4
5
ATTENTION:LIVE PART
T2L250V
T2A
T315mA
T2.5A
T1.6A
T1A
CRT
HOR
VER
TXT
EURO
PIP
EXT1
EXT2
SVHS
IR
SERVICE
B/O
8.86MHz
SECAM
SUB WOOFER
LSP
IF/
SOUND
1001
TUNER
1000
-16V/-12V
+16V
+16V/+12V
-16A
8211 015 0419 4
3111 253 3145 4

M10	F1
M11	G1
M12	G4
M13	B2
M14	E4
M15	B1
M16	A3
M17	D3
M18	C3
M19	E5
M20	G4
M21	A4
M22	A3
M23	E5
M24	E5
M25	E2
M26	G4
M27	A4
M28	D1
M29	B4
M30	G5
M31	F3
M32	C1
M33	G4
M34	G4
M40	G3
M50	B4
M51	D4
M52	F2
M53	E3
M54	F3
P01	B5
P02	C5
P03	A5
0035	A5
0037	G1
0039	G5
0041	G3
0047	A3
0049	A4
1000	A5
1003	G5
1240	D5
1242	E5
1300	F5
1534	C2
1559	A2
1580	B3
1600	G2
1601	D3
1702	F2
2001	A5
2010	B5
2231	D5
2240	C5
2242	C5
2246	D5
2248	D5
2250	A3
2251	A3
2252	A3
2254	A3
2255	A3
2264	A4
2265	A4
2266	D4
2313	F5
2314	E5
2328	G5
2329	G5
2333	G4
2354	F4
2355	E5
2364	E5
2365	F4
2366	E4
2367	D4
2370	E5
2450	B3
2456	C4
2458	C4
2465	C4
2466	C4
2468	C4
2469	C4
2471	C4
2473	C4
2502	A1
2506	A3
2509	A2
2524	C1
2538	B3
2539	A3
2545	A1
2546	A1
2547	A1
2549	B1
2550	C1
2551	C2
2559	C2
2560	B2
2563	A3
2570	C2
2574	B3
2580	B3
2585	B2
2590	C3
2600	F1
2603	D1
2605	D1
2607	D1
2611	E2
2617	E1
2620	E1
2625	D1
2626	E1
2630	D2
2631	C2
2632	E2
2640	D3
2641	D3
2646	E2
2652	D3
2653	D3
2660	E2
2661	E2
2664	E3
2671	E3
2675	D2
2676	D2
2706	G2
2713	G5
2719	F2
2850	A5
2875	A4
3001	A5
3218	C5
3219	C5
3221	C5
3222	D5
3224	D5
3230	C5
3239	C5
3240	C5
3241	C5
3242	D5
3243	D5
3246	G5
3247	G5
3248	G5
3249	G5
3250	A3
3251	A3
3253	A3
3254	A3
3255	A4
3256	A4
3265	A4
3266	A4
3312	F5
3323	F4
3327	G4
3332	G5
3334	G4
3335	F4
3336	E5
3337	E5
3338	D4
3339	E4
3340	D4
3347	E4
3348	E4
3349	E4
3350	E4
3351	E4
3352	E4
3353	E4
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3366	C3
3367	D4
3368	D4
3369	D4
3374	F4
3450	A2
3451	C4
3452	B4
3457	C4
3460	C4
3461	C4
3463	C3
3467	C3
3470	C5
3471	C4
3473	C4
3483	B4
3502	A1
3503	A1
3504	A2
3506	A3
3507	A2
3513	A3
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3542	B2
3544	B3
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3550	C1
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3617	E1
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3620	E1
3621	E1
3622	E1
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3625	E1
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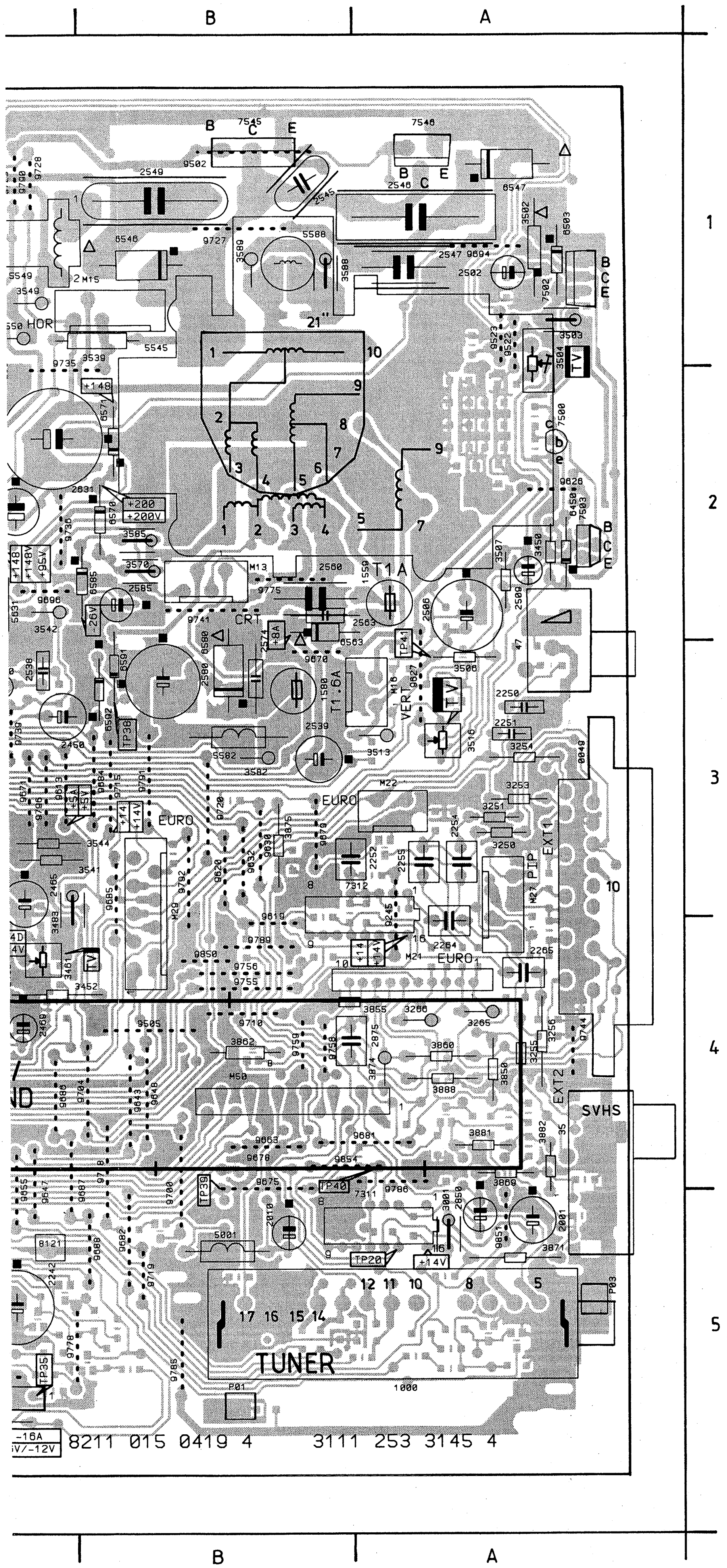

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M14	E4
M15	B1
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M19	E5
M20	G4
M21	A4
M22	A3
M23	E5
M24	E5
M25	E2
M26	G4
M27	A4
M28	D1
M29	B4
M30	G5
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M33	G4
M34	G4
M40	G3
M50	B4
M51	D4
M52	F2
M53	E3
M54	F3
P01	B5
P02	C5
P03	A5
0035	A5
0037	G1
0039	G5
0041	G3
0047	A3
0049	A4
1000	A5
1003	G5
1240	D5
1242	E5
1300	F5
1534	C2
1559	A2
1580	B3
1600	G2
1601	D3
1702	F2
2001	A5
2010	B5
2231	D5
2240	C5
2242	C5
2246	D5
2248	D5
2250	A3
2251	A3
2252	A3
2254	A3
2255	A3
2264	A4
2265	A4
2266	D4
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2314	E5
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2333	G4
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2456	C4
2458	C4
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2547	A1
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2590	C3
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2607	D1
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2617	E1
2620	E1
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2626	E1
2630	D2
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2706	G2
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3855	A4
3860	A4
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5630	D2
5631	C2
5632	D3
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6245	C5
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6591	B3
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7500	A2
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9667	E2
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9687	B5
9688	B5
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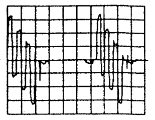
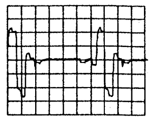
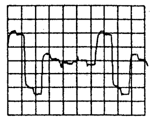
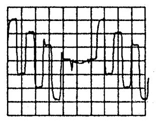
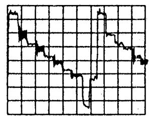
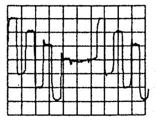

TP 1
0,2 V/div AC
20 μS/div

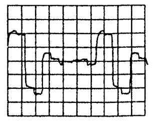

TP 2
0,2 V/div AC
20 μS/div

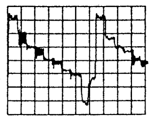

TP 3
0,2 V/div AC
10 μS/div

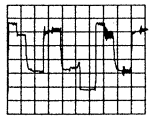

TP 4
0,2 V/div AC
10 μS/div

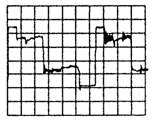

TP 5
0,1 V/div AC
10 μS/div

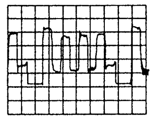

TP 6
0,2 V/div AC
10 μS/div

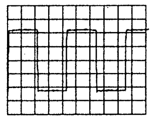

TP 7
0,2 V/div AC
10 μS/div

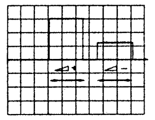

TP 8
50 mV/div AC
10 μS/div

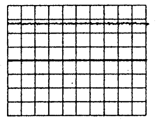

TP 9
0,5 V/div AC
10 μS/div

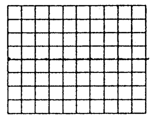

TP 10
0,5 V/div AC
10 μS/div

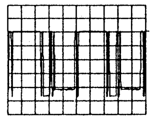

TP 11
0,5 V/div AC
10 μS/div

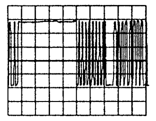

TP 12
1 V/div AC
10 μS/div

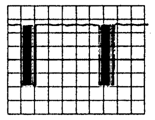

TP 13
1 V/div DC
1 S/div

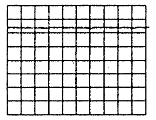

TP 14
1 V/div DC
0,5 mS/div

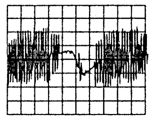

TP 14 ⏻
0,2 V/div DC
0,5 mS/div

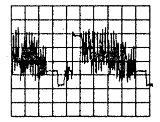

TP 15
1 V/div AC
0,2 mS/div

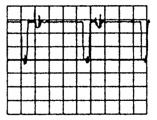

TP 16
1 V/div DC
0,1 mS/div

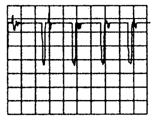

TP 17
1 V/div DC
20 mS/div

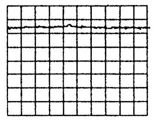

TP 18
2 V/div DC
20 mS/div

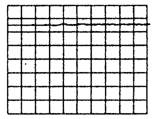

TP 19
50 mV/div AC
10 μS/div

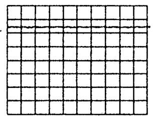

TP 20
0,5 V/div AC
10 μS/div

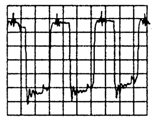

TP 21
0,5 V/div DC
5 μS/div

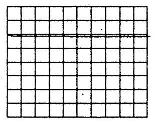

TP 21 ⏻
0,5 V/div DC
10 μS/div

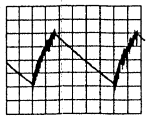

TP 22
1 V/div DC

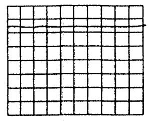

TP 23
1 V/div DC

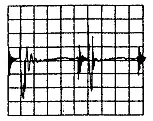

TP 24
5V/div DC

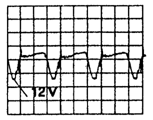

TP 25
0,2 V/div AC
5 μS/div


TP 26
1 V/div DC

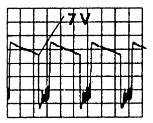

TP 26 ⏻
0,1 V/div AC
5 mS/div


TP 27
1 V/div DC

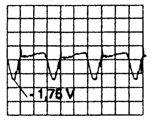

TP 27 ⏻
50 mV/div AC
10 mS/div



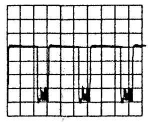
TP 28
0,5 V/div AC
5 μS/div

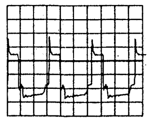


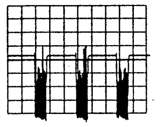
TP 28 ⏻
1 /div AC
10 mS/div

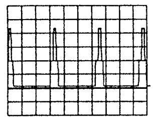


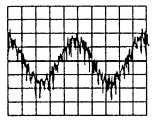
TP 29
0,5 V/div AC
5 μS/div

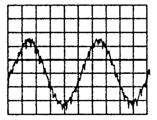

TP 29 ⏻
1 V/div AC
10 mS/div

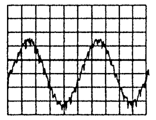

TP 30
2 V/div DC
5 μS/div

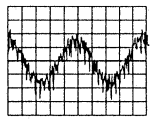

TP 30 ⏻
1 V/div DC
10 mS/div

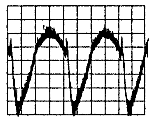

TP 31
2 V/div DC
20 μS/div

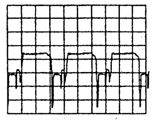

TP 32
50 mV/div DC
0,2 mS/div

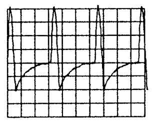

TP 33
2 V/div DC
0,2 mS/div

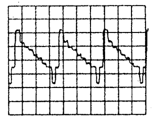

TP 34
2 V/div DC
20 μS/div

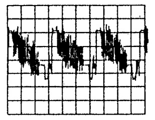

TP 35
50 mV/div DC
0,2 mS/div

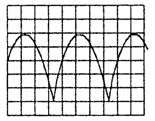

TP 36
0,2 V/div AC
5 mS/div

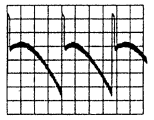

TP 37
2 V/div AC
20 μS/div

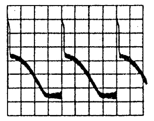

TP 38
20 mV/div AC
20 μS/div

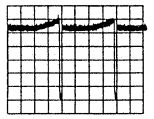

TP 39
0,2 V/div AC
20 μS/div

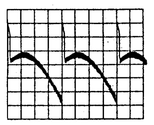

TP 40
0,5 V/div AC
20 μS/div


TP 41
2 V/div AC
5 mS/div

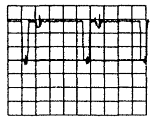

TP 41 a
5 V/div AC
5 mS/div


TP 41 b
5 V/div AC
5 mS/div

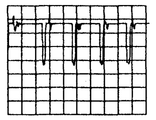

TP 41 c
0,1 V/div AC
5 mS/div


. TP 41 d
5 V/div AC
5 mS/div

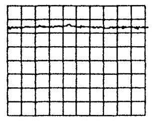
MAIN CARRIER PANEL MODULE 1



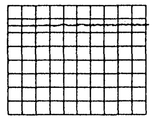
TP 21
0,5 V/div DC
5 μS/div



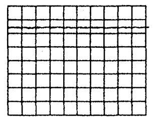
TP 21 ⏻
0,5 V/div DC
10 μS/div



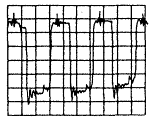
TP 22
1 V/div DC



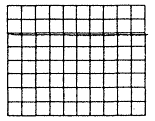
TP 23
1 V/div DC



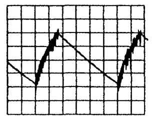
TP 24
5V/div DC



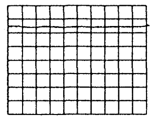
TP 25
0,2 V/div AC
5 μS/div



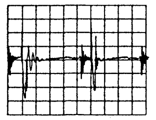
TP 26
1 V/div DC



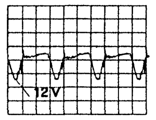
TP 26 ⏻
0,1 V/div AC
5 mS/div



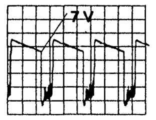
TP 27
1 V/div DC



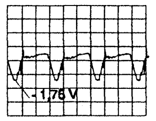
TP 27 ⏻
50 mV/div AC
10 mS/div



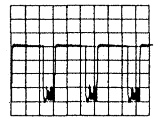
TP 28
0,5 V/div AC
5 μS/div



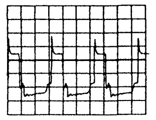
TP 28 ⏻
1 /div AC
10 mS/div



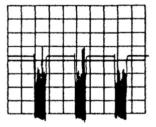
TP 29
0,5 V/div AC
5 μS/div



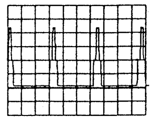
TP 29 ⏻
1 V/div AC
10 mS/div



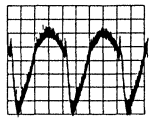
TP 30
2 V/div DC
5 μS/div



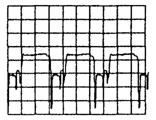
TP 30 ⏻
1 V/div DC
10 mS/div



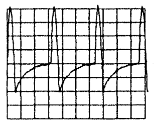
TP 31
2 V/div DC
20 μS/div



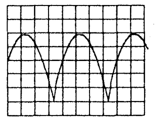
TP 36
0,2 V/div AC
5 mS/div



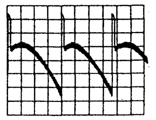
TP 37
2 V/div AC
20 μS/div



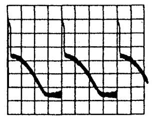
TP 38
20 mV/div AC
20 μS/div



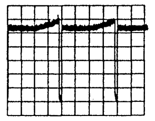
TP 41
2 V/div AC
5 mS/div



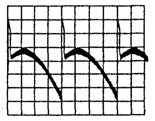
TP 41 a
5 V/div AC
5 mS/div



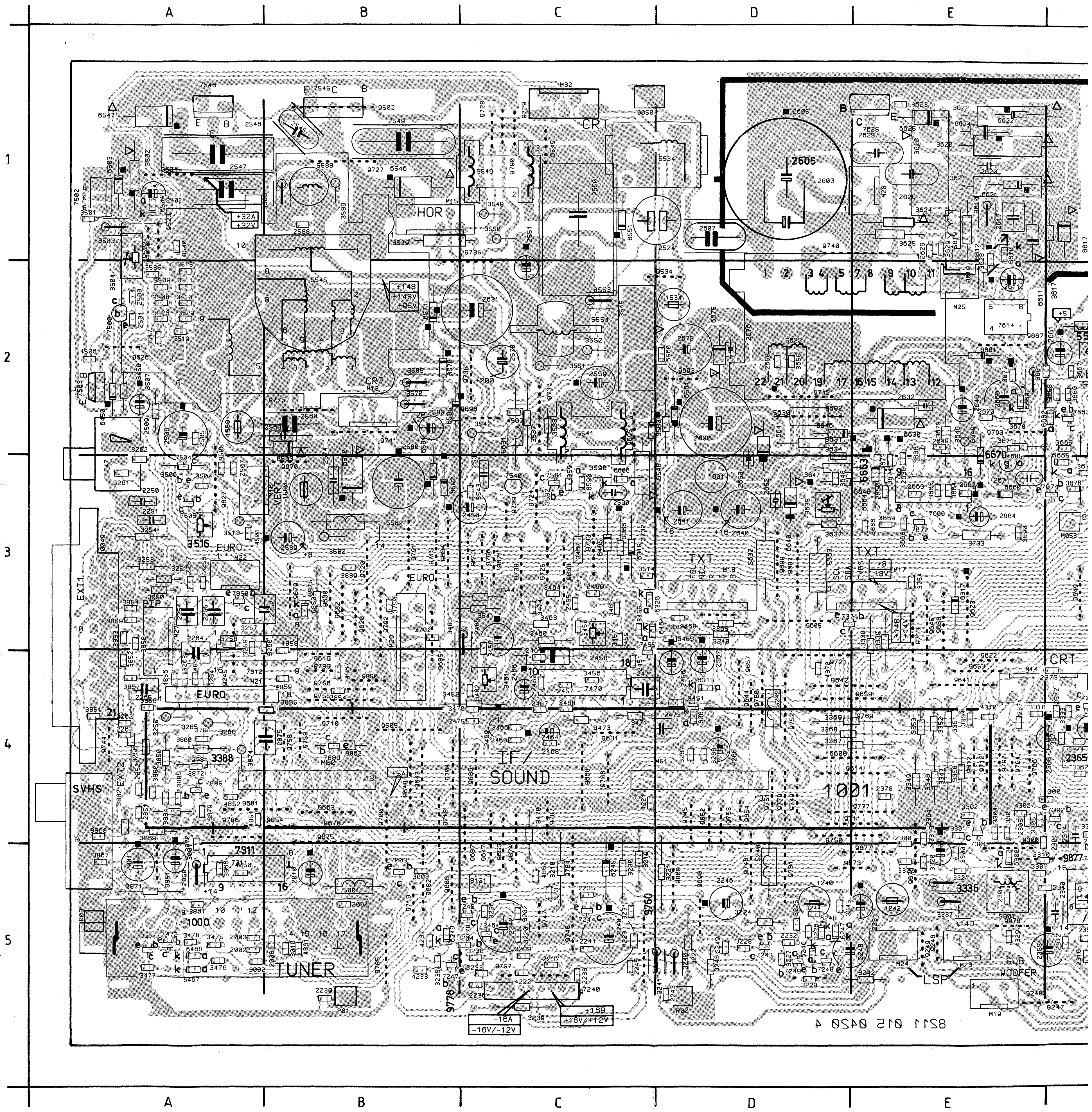
TP 41 b
5 V/div AC
5 mS/div

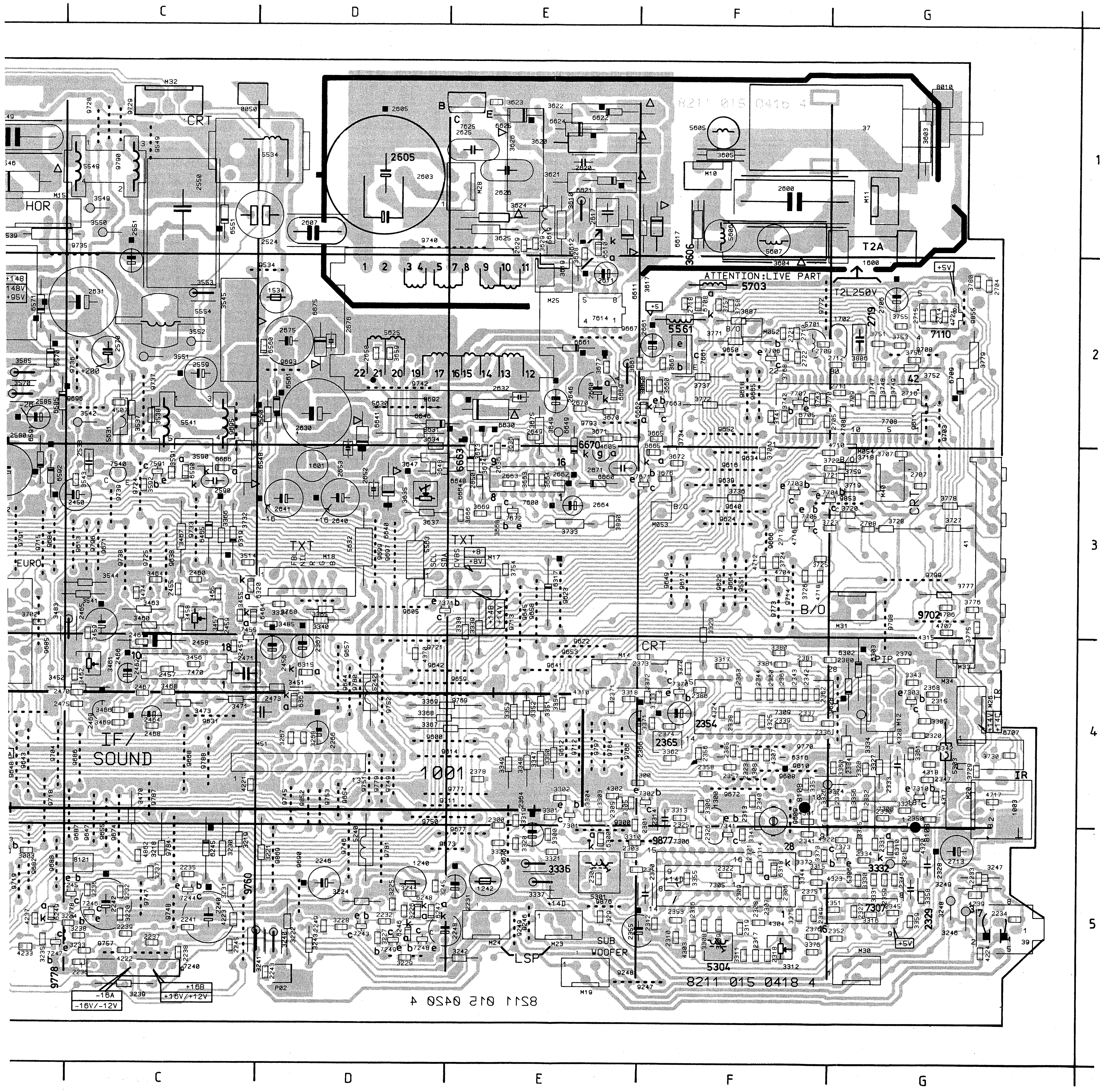


TP 41 c
0,1 V/div AC
5 mS/div



TP 41 d
5 V/div AC
5 mS/div


A
B
C
D
E
1
2
3
4
5
CRT
HOR
VERT
EURO
EXT1
EXT2
SVHS
IF/
SOUND
TXT
TUNER
1000
1001
7311
LSP
SUB
WOOFER
+32A
+32V
+148
+148V
+95V
-16A
-16V/-12V
+16B
+16V/+12V
8211 015 0420 4



M10	F1
M11	G1
M12	G4
M13	B2
M14	E4
M15	B1
M16	A3
M17	D3
M18	C3
M19	E5
M20	G4
M21	A4
M22	A3
M23	E5
M24	E5
M25	E2
M26	G4
M27	A4
M28	D1
M29	B4
M30	G5
M31	F3
M32	C1
M33	G4
M34	G4
M40	G3
M50	B4
M51	D4
M52	F2
M53	E3
M54	F3
P01	B5
P02	C5
P03	A5
0035	A5
0037	G1
0039	G5
0041	G3
0049	A4
1000	A5
1003	G5
1240	D5
1242	E5
1300	F5
1534	C2
1559	A2
1580	B3
1600	G2
1601	D3
1702	F2
2001	A5
2002	A5
2003	A5
2004	B5
2008	A5
2010	B5
2230	B5
2231	D5
2232	D5
2233	G5
2234	G5
2235	C5
2236	B5
2237	C5
2238	C5
2239	C5
2240	C5
2241	C5
2242	C5
2243	C5
2245	C5
2246	D5
2248	D5
2249	D5
2250	A3
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2252	A3
2254	A3
2255	A3
2256	A3
2257	A3
2262	A4
2263	A4
2264	A4
2265	A4
2266	D4
2300	E5
2301	E5
2303	E5
2304	E5
2305	E4
2306	F5
2307	F5
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2311	E5
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2318	F5
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2361	F4
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2363	F4
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2365	F4
2366	E4
2367	D4
2368	G4
2370	E5
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2376	F5
2378	E4
2379	G4
2380	F4
2381	F4
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2386	F4
2450	B3
2451	C4
2455	C3
2456	C4
2457	C4
2458	C4
2459	C4
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2461	C4
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2465	C4
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2467	C4
2468	C4
2469	C4
2470	B4
2471	C4
2473	C4
2475	B4
2500	A2
2501	A2
2502	A1
2505	A3
2506	A3
2507	A3
2509	A2
2524	C1
2538	B3
2539	A3
2545	A1
2546	A1
2547	A1
2549	B1
2550	C1
2551	C2
2559	C2
2560	B2
2563	A3
2570	C2
2574	B3
2580	B3
2585	B2
2588	B1
2590	C3
2600	F1
2603	D1
2605	D1
2607	D1
2611	E2
2617	E1
2620	E1
2625	D1
2626	E1
2629	E2
2630	D2
2631	C2
2632	E2
2636	E3
2640	D3
2641	D3
2646	E2
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2650	E3
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2671	E3
2675	D2
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2704	G2
2705	F2
2706	G2
2707	G3
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2710	F2
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2713	G5
2714	G2
2715	G2
2716	G2
2717	F3
2718	F2
2719	F2
2721	F2
2722	F2
2781	A4
2850	A5
2851	A4
2852	A4
2854	B4
2875	A4
3001	A5
3002	A5
3003	B5
3010	A5
3218	C5
3219	C5
3220	C5
3221	C5
3222	D5
3224	D5
3225	D5
3226	D5
3227	D5
3228	D5
3229	D5
3230	C5
3231	C5
3232	C5
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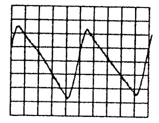
Power supply / Stromversorgung / Alimentation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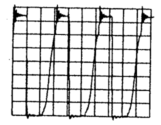
2 V/div AC
2 mS/div
280 V DC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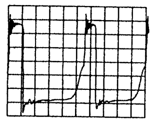
5 µS/div


② ⏻
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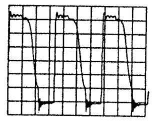
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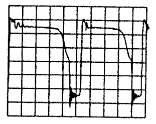
5 µS/div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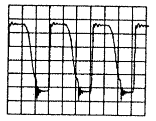
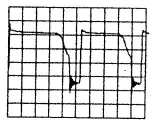
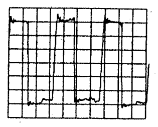
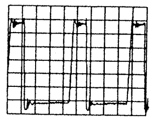
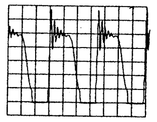
5 µS/div

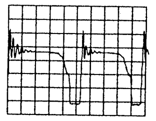

④
5 V/div AC
5 µS/div

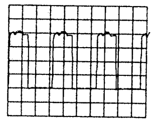

④ ⏻
5 V/div AC
5 µS/div


⑤
0,5 V/div AC
5 µS/div


⑤ ⏻
0,5 V/div AC
5 µS/div


⑥
100 V/div AC
5 µS/div


⑥ ⏻
2 V/div AC
2 mS/div


⑦
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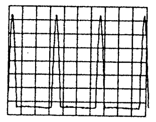
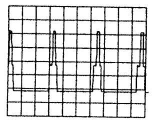
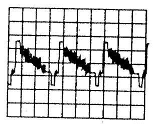
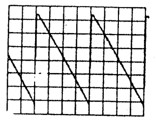
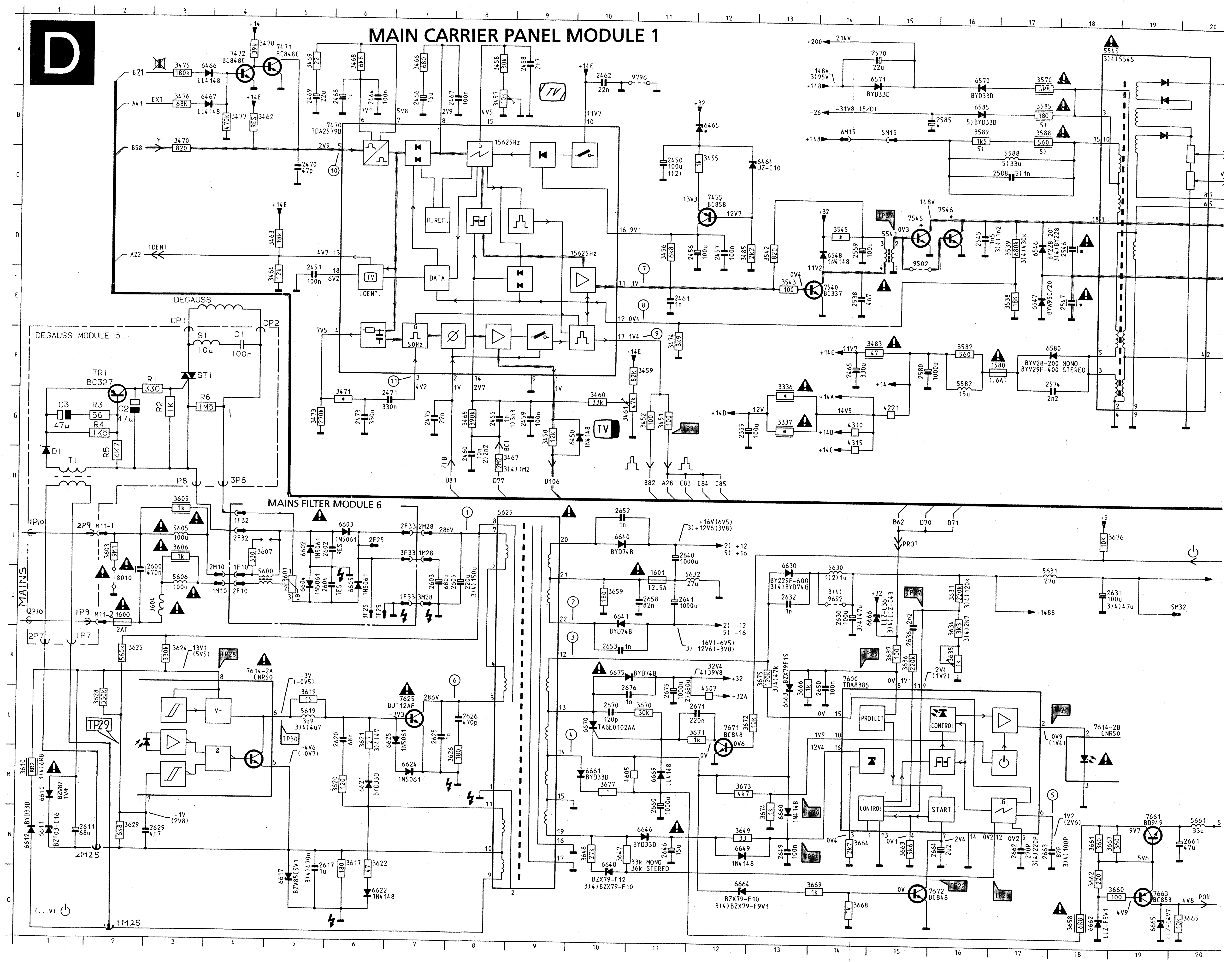
20 µS/div


⑧
0,5 V/div AC
20 µS/div


⑨
2 V/div AC
20 µS/div


⑩
0,5 V/div AC
5 mS/div


⑪
0,5 V/div AC
5 mS/div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MAIN CARRIER PANEL MODULE 1
DEGAUSS MODULE 5
MAINS FILTER MODULE 6
MAINS
DEGAUSS
CP1
CP2
S1
C1
10µ
100n
TR1
BC327
ST1
R1
330
R2
1K
R3
56
R4
1K5
R5
4K7
R6
1M5
C2
47µ
C3
47µ
D1
T1
1P8
3P8
1P10
2P10
2P9
1P9
1P7
2P7
M11-1
M11-2
1600
2AT
8010
B21
A41
B58
A22
EXT
Y
IDENT
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180k
3476
68K
3470
820
6466
LL4148
6467
LL4148
7472
BC848C
7471
BC848C
3478
39k
3477
470k
3462
RES
+14
+14E
7470
TDA2579B
2470
47p
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6K8
3466
680
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30k
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10K
2458
2n7
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22n
9796
H.REF.
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16 9V1
11 1V
12 0V4
17 1V4
2V9
4V7
6V2
7V5
4V2
1V
2V7
5V8
4V5
11V7
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100
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12k
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100n
FFB
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D106
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C84
C85
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UZ-C10
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BC858
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12V7
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6K8
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100u
2457
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BYW95C/20
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18K
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BYV29F-400 STEREO
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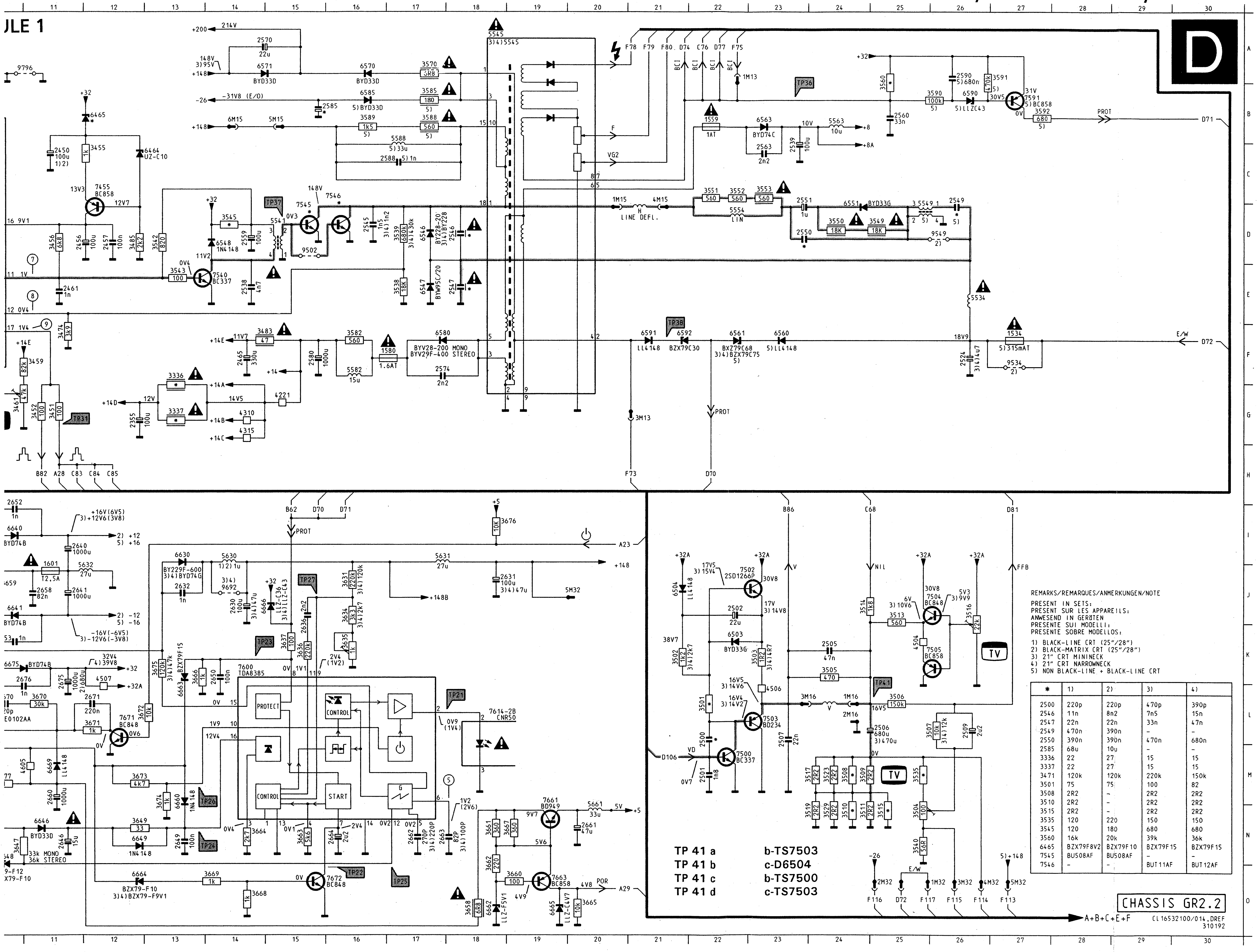
1N5061
6604
1N5061
6605
1N5061
2602
2604
2605
2603
680u
2F25
1F32
2F32
1F10
2F10
2M10
1M10
1F33
2F33
3F33
2M28
1M28
3M28
286V
3625
560k
3624
330k
13V1
(5V5)
TP28
7614-2A
CNR50
3628
330k
TP29
TP30
3619
15
5619
3u9
-3V
(-0V5)
-3V3
-4V6
(-0V7)
-1V
(2V8)
7625
BUT12AF
6625
1N5061
6624
1N5061
2625
1n
2626
470p
3626
180
2620
68n
2621
3621
27
6621
BYD330
3620
120
6617
BZV85C5V1
2617
1u
3617
180
3622
47
6622
1N4148
3629
6K8
2629
4n7
3610
8R2
6610
BZV87
6611
BZT03-C16
6612
BYD330
2611
68u
2M25
1M25
(...V)
2652
1n
6640
BYD74B
2640
1000u
+16V(6V5)
+12V6(3V8)
1601
T2,5A
5632
27u
2641
1000u
3659
180
2658
82n
6641
BYD74B
2653
1n
-16V(-6V5)
-12V6(-3V8)
6675
BYD74B
32V4
39V8
2676
1n
2675
1000u
4507
+32
+32A
2670
120p
3670
30k
6670
TAGE0102AA
2671
220n
3671
1k
7671
BC848
0V6
3672
10k
6661
BYD33D
3677
1
4605
6669
LL4148
2660
1000u
3673
4K7
3674
1k
6660
1N4148
TP26
3648
27k
3647
33k MONO
36k STEREO
6646
BYD33D
2646
15u
6648
BZX79-F12
BZX79-F10
3649
33
6649
1N4148
2649
100n
TP24
6664
BZX79-F10
BZX79-F9V1
3669
1k
3668
1k
7672
BC848
TP22
TP25
B62
D70
D71
PROT
6630
BYZ29F-600
BYD74G
5630
1u
2632
1n
9692
2630
100u
2634
47u
6666
2636
2n2
TP27
3631
220k
120k
3634
3k3
2K7
3635
1k
3636
220k
3637
100
TP23
2V4
(1V2)
3675
120k
47k
6663
BZX79F15
3666
1K
2650
100n
7600
TDA8385
PROTECT
CONTROL
START
TP21
7614-2B
CNR50
0V9
(1V4)
1V2
(2V6)
5631
27u
2631
100u
47u
SM32
+148B
+5
3676
10K
3664
2K7
3663
3K6
2664
2U2
2662
270P
220P
2663
82P
100P
7661
BD949
5661
33u
2661
47u
9V7
3661
360
3667
360
5V6
3662
220
3660
100
7663
BC858
4V8
POR
4V9
3658
6R8
6662
BZT03-C15
6665
3665
10k

Synchronization / Synchronisation


D
JLE 1
+200
214V
+148
148V
3)95V
-26
-31V8 (E/O)
+32
+14E
+14
+14D
+14A
+14B
+14C
12V
14V5
11V7
LINE DEFL.
H
LIN
VG2
F
PROT
D71
E/W
D72
18V9
10V
+8
+8A
31V
30V5
0V
1M13
3M13
F73
D70
F78
F79
F80
D74
C76
D77
F75
B82
A28
C83
C84
C85
B62
D70
D71
+5
A23
+148
+148B
5M32
TDA8385
PROTECT
CONTROL
START
+12
+16
-12
-16
+16V(6V5)
3)+12V6(3V8)
-16V(-6V5)
3)-12V6(-3V8)
32V4
(4)39V8
+32A
B86
C68
D81
V
NIL
FFB
+32A
D106
VD
E/W
-26
5)+148
2M32
1M32
3M32
4M32
5M32
F116
D72
F117
F115
F114
F113
POR
A29
+5
5V
A+B+C+E+F
TP36
TP37
TP38
TP27
TP23
TP21
TP26
TP24
TP22
TP25
TP31
TP41
TV
7455 BC858
7540 BC337
7545
7546
7591 BC858
7600 TDA8385
7614-2B CNR50
7661 BD949
7663 BC858
7671 BC848
7672 BC848
7500 BC337
7502 2SD1266P
7503 BD234
7504 BC848
7505 BC858
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) BLACK-LINE CRT (25"/28")
2) BLACK-MATRIX CRT (25"/28")
3) 21" CRT MININECK
4) 21" CRT NARROWNECK
5) NON BLACK-LINE + BLACK-LINE CRT

*	1)	2)	3)	4)
2500	220p	220p	470p	390p
2546	11n	8n2	7n5	15n
2547	22n	22n	33n	47n
2549	470n	390n	-	-
2550	390n	390n	470n	680n
2585	68u	10u	-	-
3336	22	27	15	15
3337	22	27	15	15
3471	120k	120k	220k	150k
3501	75	75	100	82
3508	2R2	-	2R2	2R2
3510	2R2	-	2R2	2R2
3515	2R2	-	2R2	2R2
3535	120	220	150	150
3545	120	180	680	680
3560	16k	20k	39k	36k
6465	BZX79F8V2	BZX79F10	BZX79F15	BZX79F15
7545	BU508AF	BU508AF	-	-
7546	-	-	BUT11AF	BUT12AF

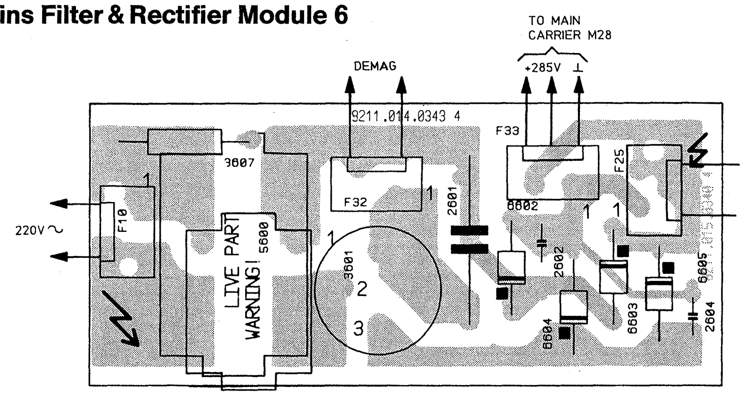
TP 41 a	b-TS7503
TP 41 b	c-D6504
TP 41 c	b-TS7500
TP 41 d	c-TS7503

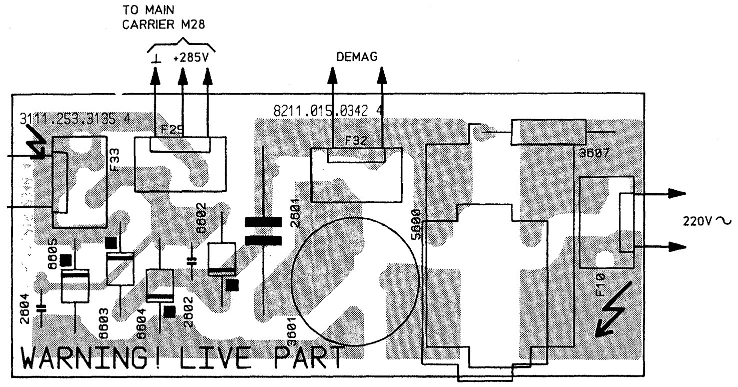
CHASSIS GR2.2

CL 16532100/014.DREF
310192

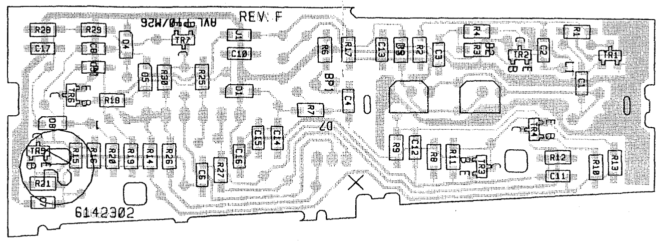
1534	F27	3552	C22	6649	N12
1559	B22	3553	C23	6660	M13
1580	F17	3560	B25	6661	M10
1600	J 2	3570	A17	6662	O18
1601	J11	3582	F16	6663	K13
2355	G12	3585	B17	6664	O12
2450	C11	3588	B17	6665	O19
2451	E 5	3589	B16	6666	J15
2455	G 8	3590	B26	6669	M11
2456	D11	3591	A27	6670	L10
2457	D12	3592	B27	6675	K10
2458	A 9	3600	I 1	7455	C12
2459	G 9	3601	J 5	7470	B 6
2460	H 8	3603	I 2	7471	A 5
2461	E11	3604	J 3	7472	A 4
2462	A10	3605	H 3	7540	E14
2464	B 6	3606	I 3	7545	D15
2465	F14	3607	I 4	7546	C16
2466	B 7	3610	M 1	7591	B27
2467	B 7	3617	N 6	7600	K14
2468	B 6	3619	L 5	7614	K 5
2469	B 5	3620	M 6	7614	L19
2470	C 5	3621	L 6	7625	L 7
2471	G 6	3622	N 6	7661	M19
2473	G 6	3624	K 3	7663	O19
2475	G 7	3625	K 2	7671	L12
2524	F26	3626	M 8	7672	O16
2538	E14	3628	L 2	8010	J 2
2539	C23	3629	N 2	9502	D15
2545	D16	3631	J16	9534	F27
2546	D18	3634	J16	9549	D26
2547	E18	3635	K16	9692	J14
2549	D26	3636	K15	9796	A11
2550	D23	3637	K15		
2551	D23	3647	N10		
2559	D14	3648	N10		
2560	B25	3649	N12		
2563	C23	3658	O18		
2570	A14	3659	J10		
2574	F17	3660	O19		
2580	F15	3661	N18		
2585	B15	3662	N18		
2588	C17	3663	N15		
2590	A26	3664	N14		
2600	J 2	3665	O20		
2601	I 5	3666	K13		
2602	I 5	3667	N19		
2603	J 7	3668	O14		
2604	J 5	3669	O14		
2605	J 8	3670	L11		
2607	O 9	3671	L12		
2611	N 1	3672	L12		
2617	N 5	3673	M12		
2620	L 6	3674	M13		
2625	L 7	3675	K13		
2626	L 8	3676	I18		
2629	N 3	3677	M10		
2630	J14	4221	G15		
2631	J18	4310	G14		
2632	J13	4315	G14		
2636	J15	4507	K12		
2640	I11	4605	M11		
2641	J11	5534	E26		
2646	N11	5541	D15		
2649	N13	5545	A18		
2650	K14	5545	A18		
2652	I10	5549	D25		
2653	K10	5554	D22		
2658	J11	5563	B24		
2660	M11	5582	F16		
2661	N20	5588	B17		
2662	N17	5600	J 4		
2663	N17	5605	I 3		
2664	N16	5606	J 3		
2670	L10	5619	L 5		
2671	L12	5625	I 8		
2675	K11	5630	I14		
2676	K11	5631	I17		
3336	F13	5632	J12		
3337	G13	5661	N20		
3450	G 9	6450	G10		
3451	G11	6464	C12		
3452	G11	6465	B12		
3455	C12	6466	A 3		
3456	D11	6467	B 3		
3457	B 8	6546	D17		
3458	A 8	6547	E17		
3459	F11	6548	D14		
3460	G10	6551	D24		
3461	G10	6560	F23		
3462	B 4	6561	F22		
3463	D 5	6563	B23		
3464	E 5	6570	A16		
3465	G 8	6571	A14		
3466	A 7	6580	F17		
3467	H 8	6585	B16		
3468	A 6	6590	B26		
3469	A 5	6591	F21		
3470	B 3	6592	F21		
3471	G 6	6602	I 5		
3473	G 5	6603	I 6		
3474	F11	6604	J 5		
3475	A 3	6605	J 6		
3476	B 3	6610	M 1		
3477	B 4	6611	N 1		
3478	A 4	6612	N 1		
3483	F14	6617	O 5		
3485	D12	6621	M 6		
3538	E17	6622	O 6		
3539	D17	6624	M 7		
3542	D13	6625	L 7		
3543	E13	6630	I13		
3545	D14	6640	I10		
3549	D25	6641	J10		
3550	D24	6646	N11		
3551	C22	6648	N10		

Mains Filter & Rectifier Module 6

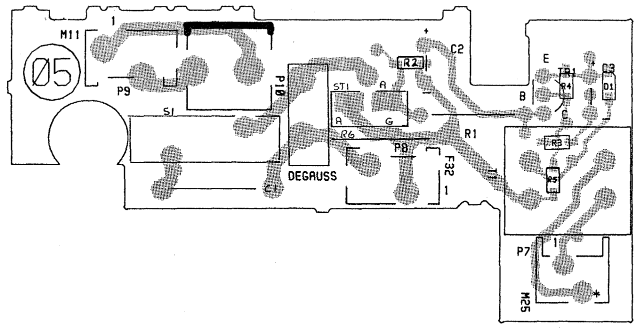

TO MAIN
CARRIER M28
DEMAG
+285V ⊥
9211.014.0343 4
F33
3607
F32
F25
F10
220V ~
LIVE PART
WARNING!
5600
3601
2601
2602
6602
6603
6604
6605
2604
1
2
3


TO MAIN
CARRIER M28
⊥ +285V
DEMAG
3111.253.3135 4
8211.015.0342 4
F25
F32
F33
3607
5600
2601
2602
2604
6602
6603
6604
6605
3601
F10
220V ~
WARNING! LIVE PART

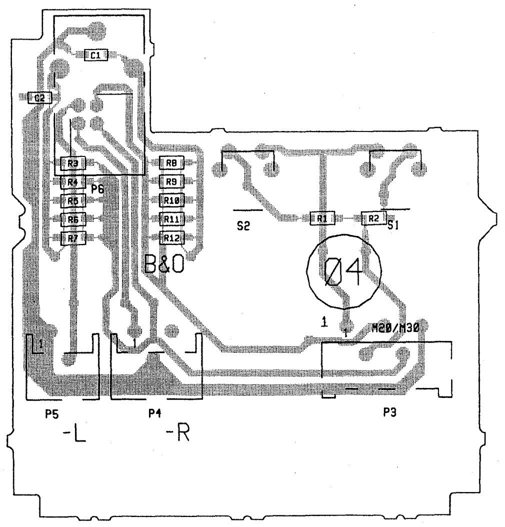
IR Receiver, module 2


REV. F
R28
R29
C17
R18
R12
C11
6142302

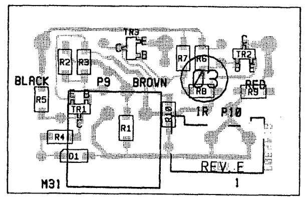
Degauss module 5

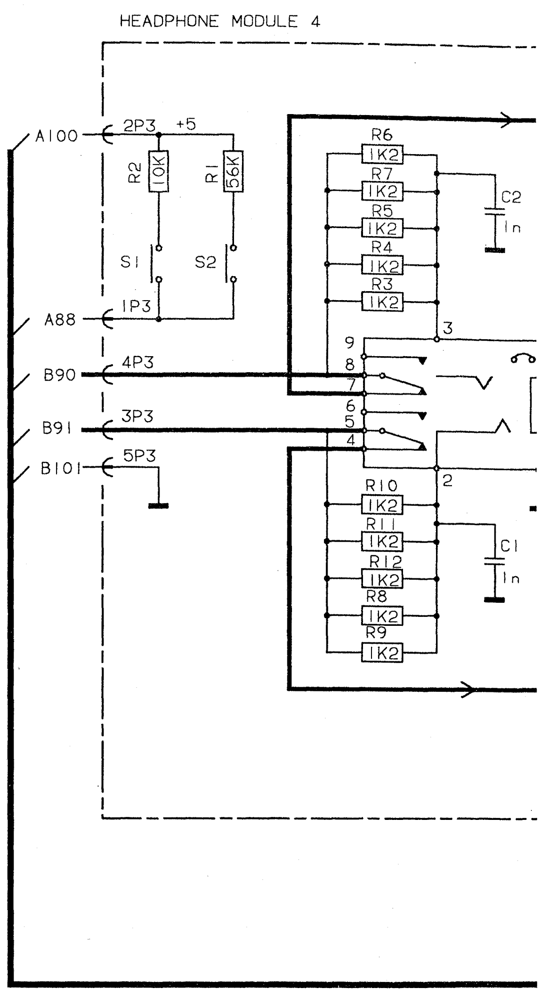

05
M11
P9
P10
S1
ST1
A
G
R1
R2
C2
C1
P8
F32
DEGAUSS
R3
E
B
C
P7
M25

Headphone, module 4

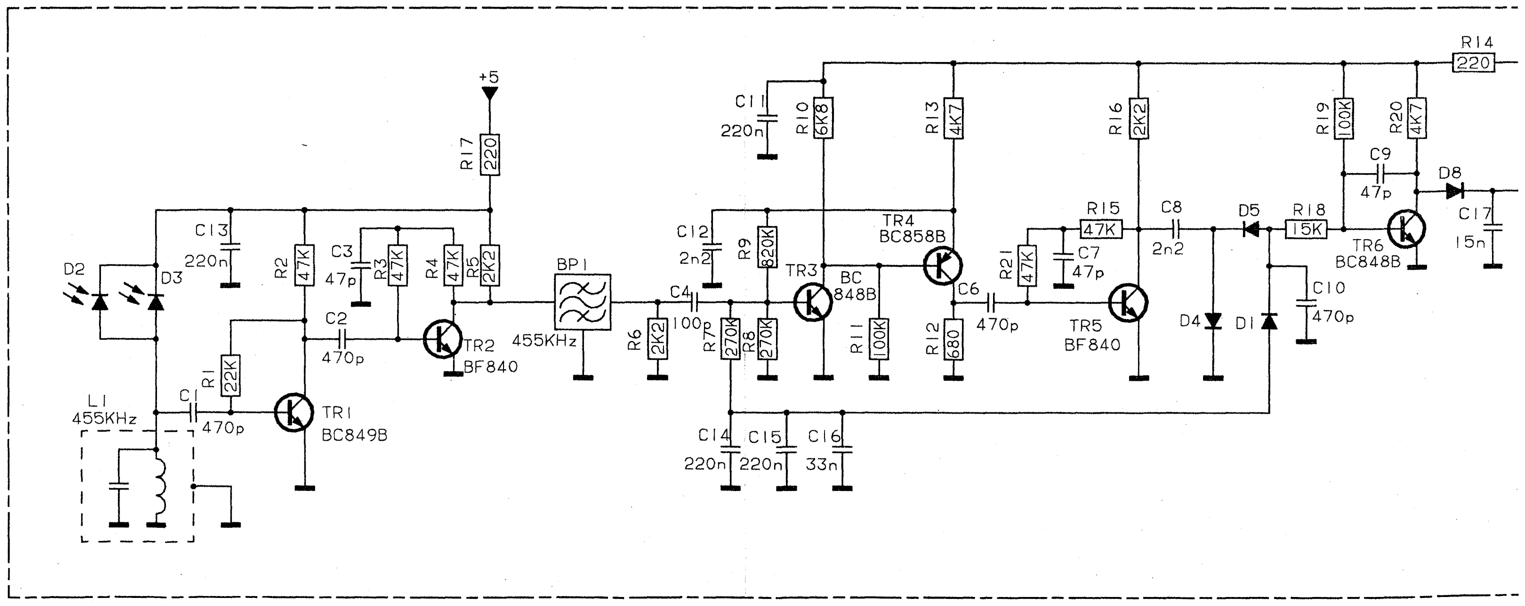

EC1
C2
R3
R4
R5
R6
R7
R8
R9
R10
R11
R12
P6
B&O
S2
R1
R2
S1
04
M28/M30
P5
P4
P3
-L
-R

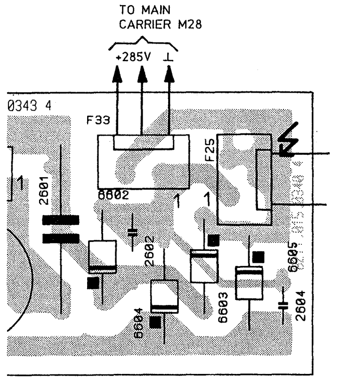
A/V Link Interface, module 3


BLACK
BROWN
P9
IR
R10
RED
REV. F
03
M31
1

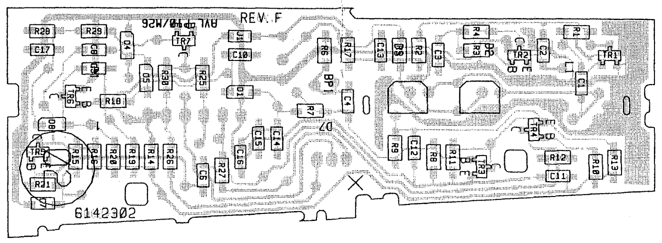

HEADPHONE MODULE 4
A100
2P3
+5
R2
10K
R1
56K
S1
S2
A88
1P3
B90
4P3
B91
3P3
B101
5P3
R6
1K2
R7
1K2
R5
1K2
R4
1K2
R3
1K2
C2
1n
R10
1K2
R11
1K2
R12
1K2
R8
1K2
R9
1K2
C1
1n
9
8
7
6
5
4
3
2

E IR RECEIVER MODULE 2

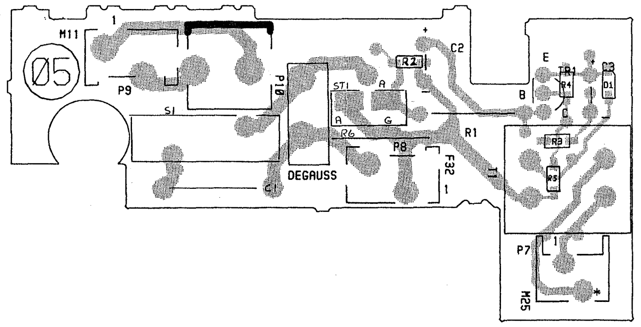

+5
R17
220
C13
220n
D2
D3
R2
47K
C3
47p
R3
47K
R4
47K
R5
2K2
BP1
455KHz
C2
470p
TR2
BF840
R1
22K
C1
470p
TR1
BC849B
L1
455KHz
C11
220n
R10
6K8
C12
2n2
R9
620K
C4
100p
R6
2K2
R7
270K
R8
270K
TR3
BC
848B
R11
100K
R13
4K7
TR4
BC858B
R12
680
C6
470p
C14
220n
C15
220n
C16
33n
R21
4K7
R15
47K
C7
47p
TR5
BF840
R16
2K2
C8
2n2
D5
D4
D1
R18
15K
C10
470p
R19
100K
R20
4K7
C9
47p
D8
TR6
BC848B
C17
15n
R14
220

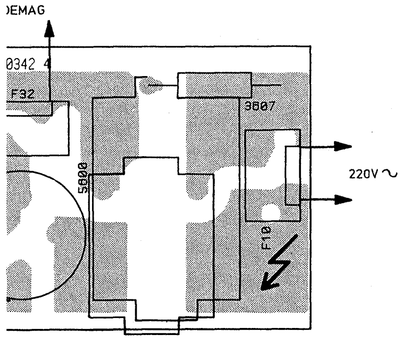

TO MAIN
CARRIER M28
+285V ⊥
0343 4
F33
F25
2601
6602
2602
6604
6603
6605
2604

IR Receiver, module 2

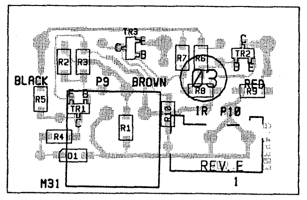

REV. F
6142302
R20
C17
R21
R10
C10
C11
R12

Degauss module 5

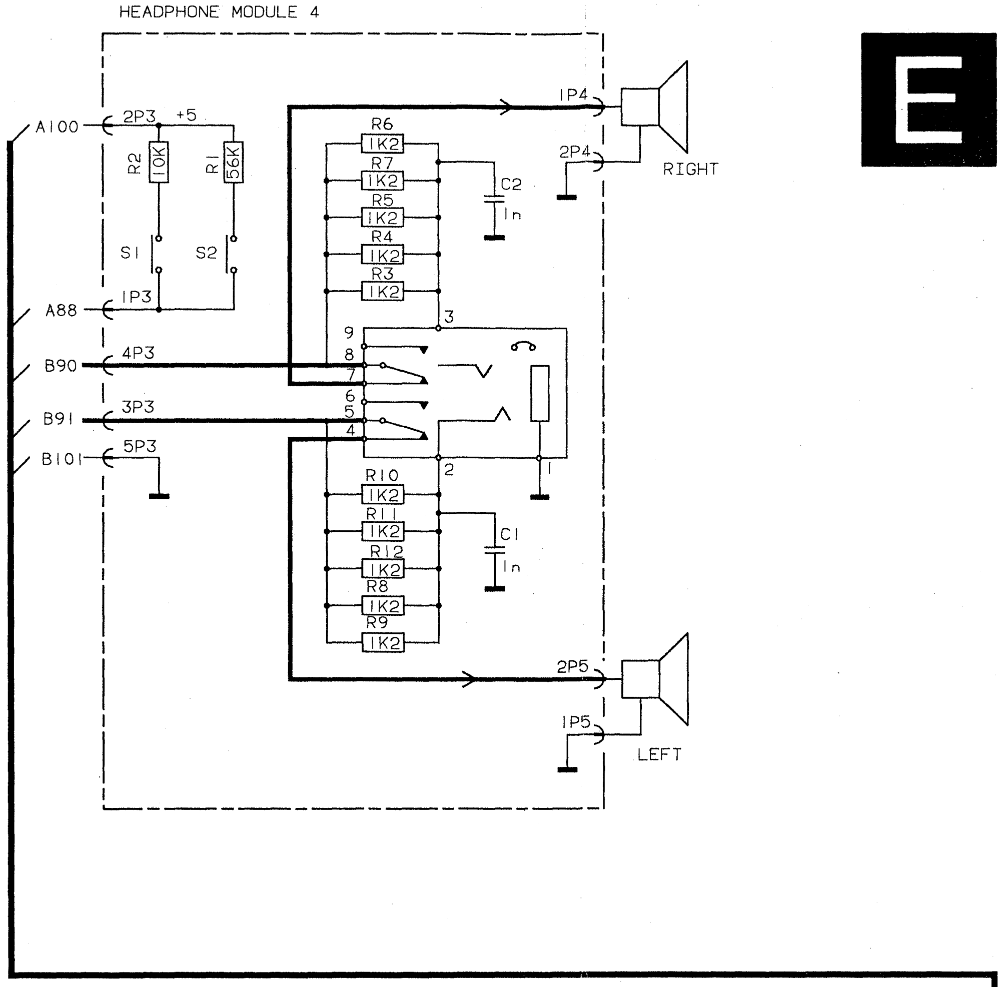

M11
05
P9
S1
P10
ST1
R2
C2
E
B
R1
R8
R6
A
G
DEGAUSS
F32
C1
P7
M25


DEMAG
0342 4
F92
3607
5000
F10
220V~

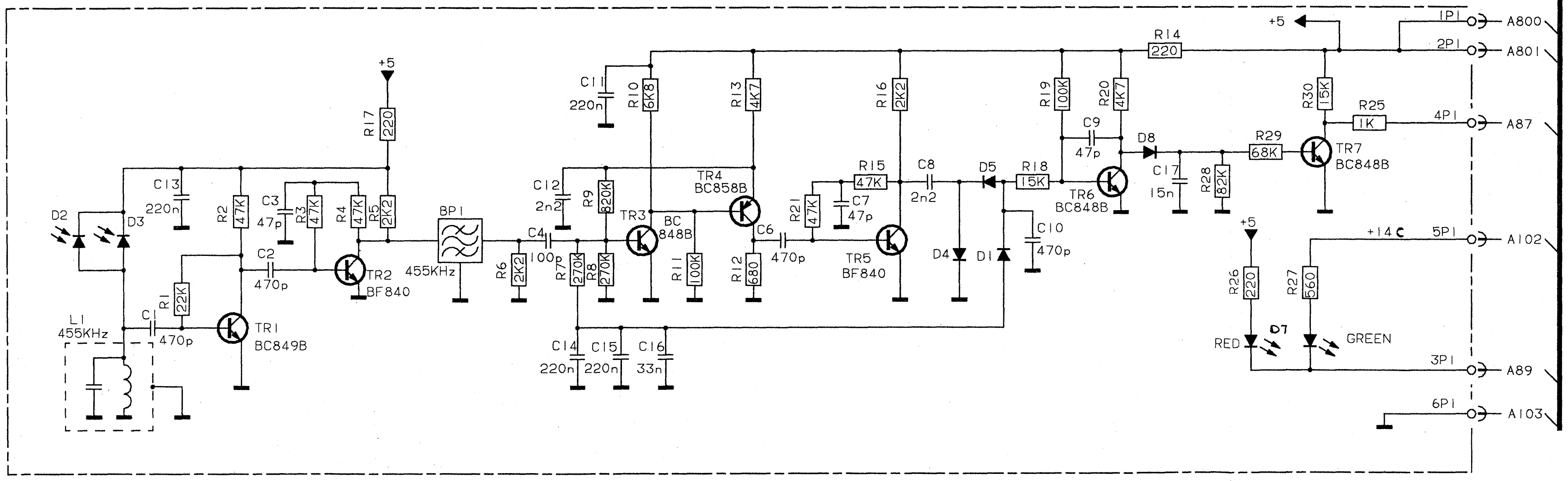
A/V Link Interface, module 3


BLACK
R2
R3
P9
BROWN
IR
P10
RED
03
R1
TR1
D1
M31
REV. E

E


HEADPHONE MODULE 4
A100
2P3
+5
R2
10K
R1
56K
S1
S2
A88
1P3
B90
4P3
B91
3P3
B101
5P3
R6 1K2
R7 1K2
R5 1K2
R4 1K2
R3 1K2
C2
1n
1P4
2P4
RIGHT
9
8
7
6
5
4
3
2
1
R10 1K2
R11 1K2
R12 1K2
R8 1K2
R9 1K2
C1
1n
2P5
1P5
LEFT

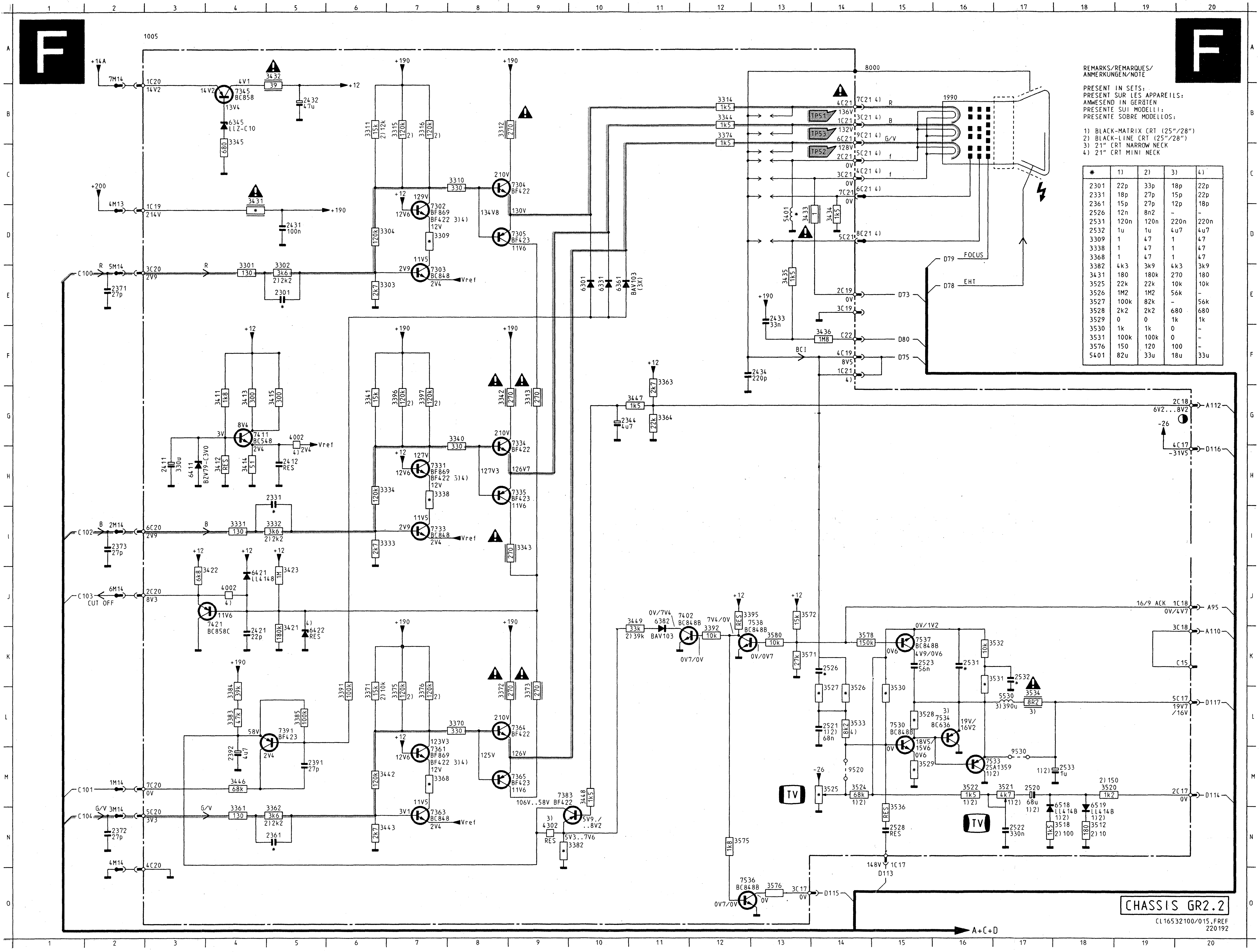
E IR RECEIVER MODULE 2


+5
R17
220
C13
220n
D2
D3
R2
47K
C3
47p
R3
47K
R4
47K
R5
2K2
C2
470p
TR2
BF840
L1
455KHz
C1
470p
R1
22K
TR1
BC849B
BP1
455KHz
C4
100p
R6
2K2
C11
220n
R10
6K8
R13
4K7
C12
2n2
R9
820K
R7
270K
R8
270K
TR3
BC848B
TR4
BC858B
R11
100K
R12
680
C6
470p
C14
220n
C15
220n
C16
33n
R16
2K2
R21
47K
R15
47K
C7
47p
C8
2n2
TR5
BF840
D5
D4
D1
R18
15K
C10
470p
R19
100K
R20
4K7
C9
47p
D8
TR6
BC848B
C17
15n
R28
82K
R14
220
R30
15K
R25
1K
R29
68K
TR7
BC848B
+5
R26
220
R27
560
RED
D7
GREEN
+14 C
1P1
A800
2P1
A801
4P1
A87
5P1
A102
3P1
A89
6P1
A103

2-13
VIDEO OUTPUT MODULE 9

2-13
DIAGRAM F

2-13
DIAGRAM F



F
1005
+14A
7M14
1C20
14V2
7345
BC858
6345
LLZ-C10
3345
3432
39
+12
2432
47u
+200
4M13
1C19
214V
3431
+190
2431
100n
R
5M14
3C20
2V9
C100
2371
27p
3301
130
3302
3k6
2)12k2
2301
+190
3311
15k
3315
120k
3316
120k
3312
270
3310
330
7304
BF422
7302
BF869
BF422 3)4)
3309
3304
120k
7305
BF423
7303
BC848
Vref
3303
2k7
134V8
130V
6301
6331
6361
BAV103 (3X)
3314
1k5
3344
1k5
3374
1k5
TP51
TP53
TP52
136V
132V
128V
7C21 4)
3C21 4)
9C21 4)
4C21
1C21
6C21
5C21 4)
2C21
4C21 4)
3C21
6C21 4)
7C21
8C21 4)
5C21
R
B
G/V
f
8000
1990
5401
3433
3434
3435
1k5
2C19
0V
3C19
D73
D79
FOCUS
D78
EHT
+190
2433
33n
3436
1M8
C22
D80
BCI
4C19
8V5
1C21
D75
2434
220p
+12
3411
1k8
3413
300
3415
300
3V
8V4
7411
BC548
4002
4)
2V4
Vref
2411
330u
6411
BZV79-C3V0
3412
RES
3414
51
2412
RES
3341
15k
3396
120k
3397
120k
3342
270
3313
270
3340
330
7334
BF422
7331
BF869
BF422 3)4)
127V3
126V7
7335
BF423
3334
120k
3338
7333
BC848
3333
2k7
3343
270
B
2M14
6C20
2V9
C102
2373
27p
3331
130
3332
3k6
2)12k2
2331
+12
3422
6k8
6421
LL4148
3423
1M
C103
CUT OFF
6M14
2C20
8V3
4002
7421
BC858C
11V6
2421
22p
3421
180k
6422
RES
+190
3384
39k
3383
47k
3385
100k
58V
7391
BF423
2392
4u7
2391
27p
3391
100k
3371
15k
2)10k
3375
120k
3376
120k
3372
270
3373
270
3370
330
7364
BF422
7361
BF869
BF422 3)4)
123V3
125V
126V
7365
BF423
3442
120k
3368
7363
BC848
3443
2k7
106V..58V
7383
BF422
3448
1k5
4302
RES
3382
5V9
..8V2
5V3..7V6
C101
1M14
7C20
0V
3446
68k
G/V
3M14
5C20
3V3
C104
2372
27p
3361
130
3362
3k6
2)12k2
2361
4M14
4C20
+12
3363
2k7
3447
1k5
2344
4u7
3364
22k
3449
33k
2)39k
6382
BAV103
0V/7V4
7402
BC848B
3392
10k
7V4/0V
0V7/0V
+12
3395
RES
7538
BC848B
0V/0V7
3580
10k
+12
3572
15k
3571
27k
3578
150k
7537
BC848B
0V/1V2
4V9/0V6
2523
56n
2531
3532
10k
3531
2532
3534
8R2
5530
3)390u
2526
3527
3526
3530
3528
7534
BC636
19V/16V2
7530
BC848B
18V5/15V6
3529
7533
2SA1359
9530
2533
1u
2521
1)2)
68n
3533
8k2
9520
-26
3525
3524
68k
TV
3522
1k5
3521
4k7
2520
68u
6518
LL4148
3518
2)100
6519
LL4148
3512
2)10
3520
1k2
2)150
2C17
D114
3536
RES
2528
RES
2522
330n
TV
3575
1k8
148V
1C17
D113
7536
BC848B
3576
3C17
D115
0V7/0V
2C18
6V2...8V2
A112
-26
4C17
-31V5
D116
16/9 ACK
1C18
0V/4V7
A95
3C18
A110
C15
5C17
19V7
/16V
D117
A+C+D
CHASSIS GR2.2
CL16532100/015.FREF
220192

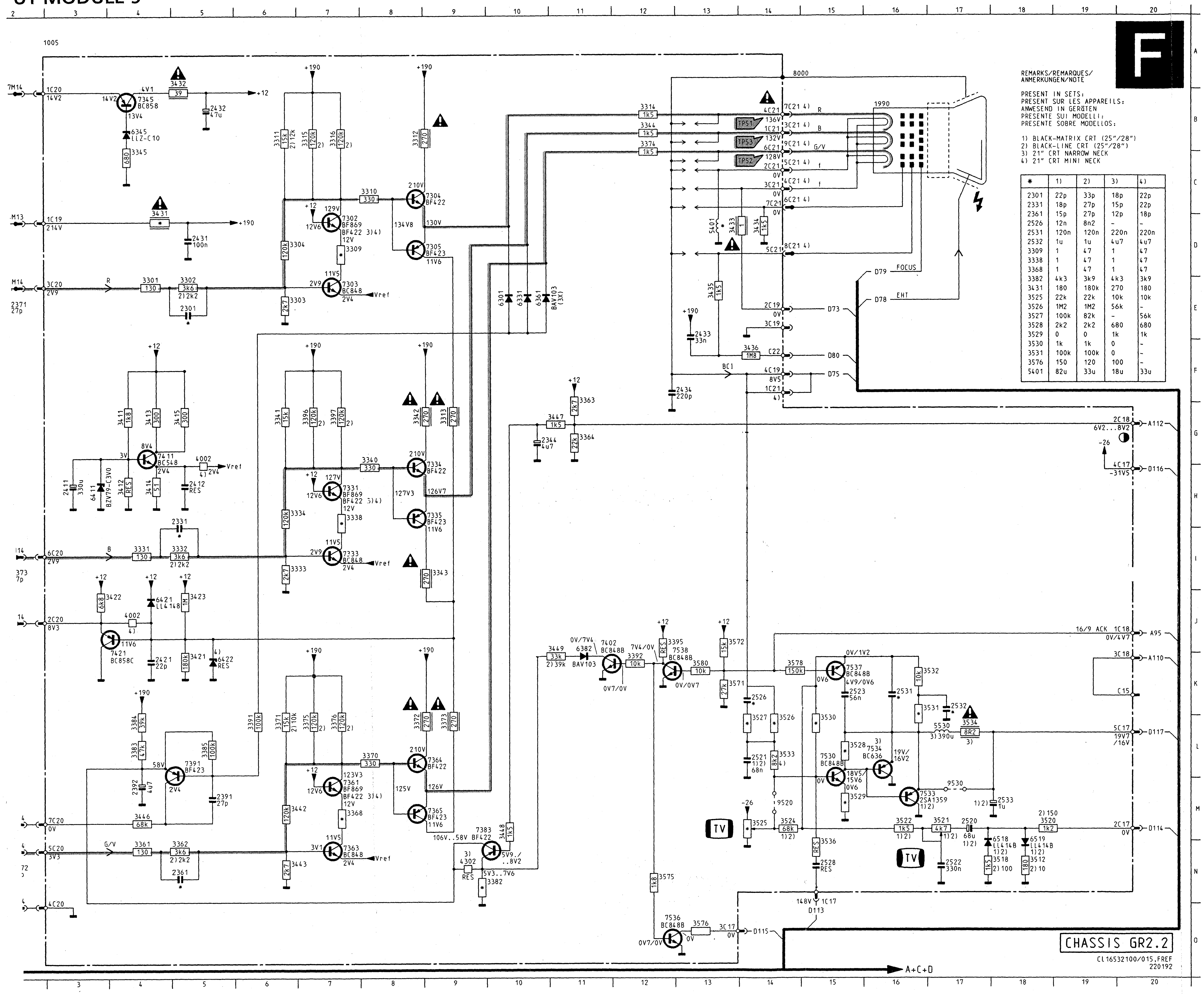
REMARKS/REMARQUES/
ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) BLACK-MATRIX CRT (25"/28")
2) BLACK-LINE CRT (25"/28")
3) 21" CRT NARROW NECK
4) 21" CRT MINI NECK

*	1)	2)	3)	4)
2301	22p	33p	18p	22p
2331	18p	27p	15p	22p
2361	15p	27p	12p	18p
2526	12n	8n2	-	-
2531	120n	120n	220n	220n
2532	1u	1u	4u7	4u7
3309	1	47	1	47
3338	1	47	1	47
3368	1	47	1	47
3382	4k3	3k9	4k3	3k9
3431	180	180k	270	180
3525	22k	22k	10k	10k
3526	1M2	1M2	56k	-
3527	100k	82k	-	56k
3528	2k2	2k2	680	680
3529	0	0	1k	1k
3530	1k	1k	0	-
3531	100k	100k	0	-
3576	150	120	100	-
5401	82u	33u	18u	33u

1005	A 2
1990	B16
2301	E 5
2331	H 5
2344	G10
2361	N 5
2371	E 2
2372	N 2
2373	I 2
2391	M 5
2392	M 4
2411	H 3
2412	H 5
2421	K 4
2431	D 5
2432	B 5
2433	E13
2434	F13
2520	M17
2521	L14
2522	N17
2523	K15
2526	K14
2528	N15
2531	H16
2531	K16
2532	G18
2532	K17
3301	E 4
3302	E 5
3303	E 6
3304	D 6
3309	D 7
3310	C 8
3311	B 6
3312	B 8
3313	G 9
3314	B12
3315	B 7
3316	B 7
3331	I 4
3332	I 5
3333	I 6
3334	H 6
3338	H 7
3340	G 8
3341	G 6
3342	G 8
3343	I 9
3344	B12
3345	B 4
3361	N 4
3362	N 5
3363	F11
3364	G11
3368	M 7
3370	L 8
3371	L 6
3372	L 8
3373	L 9
3374	B12
3375	L 7
3376	L 7
3382	N 9
3383	L 4
3384	L 4
3385	L 5
3391	L 6
3392	K12
3392	H12
3395	H12
3395	J12
3396	G 7
3397	G 7
3411	G 4
3412	H 4
3413	G 4
3414	H 4
3415	G 5
3421	J 5
3422	J 3
3423	J 5
3431	D 4
3432	A 5
3433	D13
3434	D14
3435	E13
3436	F14
3442	M 6
3443	N 6
3446	M 4
3447	G11
3448	M10
3449	H11
3449	J11
3512	N18
3518	N18
3520	M18
3521	M17
3522	M16
3524	M14
3525	I16
3525	M14
3526	K14
3527	H15
3527	K14
3528	H17
3528	L15
3529	I17
3529	M15
3530	K15
3531	K16
3532	G17
3532	K16
3533	H16
3533	L14
3534	H18
3534	L17
3536	M15
3571	I13
3571	K13
3572	H13
3572	J13
3575	N12
3575	I12
3576	I13
3576	O13
3578	K14
3580	H13
3580	K13
4002	J 4
4002	G 5
4301	A 4
4302	N 9
5401	D13
5530	H18
5530	L17
6301	E10
6331	E10
6345	B 4
6361	E10
6382	H11
6382	J11
6411	H 3
6421	J 4
6422	K 5
6518	N18
6519	N18
7302	D 7
7303	E 7
7304	C 9
7305	D 9
7331	H 7
7333	I 7
7334	H 9
7335	H 9
7345	B 4
7361	M 7
7363	N 7
7364	L 9
7365	M 9
7383	M10
7391	L 5
7402	H11
7402	J11
7411	G 4
7421	J 4
7530	H17
7530	L15
7533	M16
7534	H17
7534	L16
7536	O12
7536	I12
7537	K15
7538	H12
7538	K12
9530	M17


F
1005
1990
8000
FOCUS
EHT
D79
D78
D73
D80
D75
TP51
TP52
TP53
7345 BC858
7302 BF869
7303 BC848
7304 BF422
7305 BF423
7331 BF869
7333 BC848
7334 BF422
7335 BF423
7361 BF869
7363 BC848
7364 BF422
7365 BF423
7391 BF423
7383 BF422
7411 BC548
7421 BC858C
7402 BC848B
7538 BC848B
7537 BC848B
7534 BC636
7530 BC848B
7533 2SA1359
7536 BC848B
BAV103 (3X)
Vref
+190
+12
-26
A112
D116
A95
A110
D117
D114
D115
D113
A+C+D
CHASSIS GR2.2
CL 16532100/015.FREF
220192

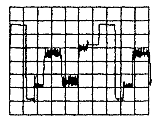
REMARKS/REMARQUES/
ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

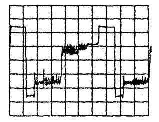
1) BLACK-MATRIX CRT (25"/28")
2) BLACK-LINE CRT (25"/28")
3) 21" CRT NARROW NECK
4) 21" CRT MINI NECK

*	1)	2)	3)	4)
2301	22p	33p	18p	22p
2331	18p	27p	15p	22p
2361	15p	27p	12p	18p
2526	12n	8n2	-	-
2531	120n	120n	220n	220n
2532	1u	1u	4u7	4u7
3309	1	47	1	47
3338	1	47	1	47
3368	1	47	1	47
3382	4k3	3k9	4k3	3k9
3431	180	180k	270	180
3525	22k	22k	10k	10k
3526	1M2	1M2	56k	-
3527	100k	82k	-	56k
3528	2k2	2k2	680	680
3529	0	0	1k	1k
3530	1k	1k	0	-
3531	100k	100k	0	-
3576	150	120	100	-
5401	82u	33u	18u	33u

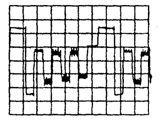
1005	A 2
1990	B16
2301	E 5
2331	H 5
2344	G10
2361	N 5
2371	E 2
2372	N 2
2373	I 2
2391	M 5
2392	M 4
2411	H 3
2412	H 5
2421	K 4
2431	D 5
2432	B 5
2433	E13
2434	F13
2520	M17
2521	L14
2522	N17
2523	K15
2526	K14
2528	N15
2531	H16
2531	K16
2532	G18
2532	K17
3301	E 4
3302	E 5
3303	E 6
3304	D 6
3309	D 7
3310	C 8
3311	B 6
3312	B 8
3313	G 9
3314	B12
3315	B 7
3316	B 7
3331	I 4
3332	I 5
3333	I 6
3334	H 6
3338	H 7
3340	G 8
3341	G 6
3342	G 8
3343	I 9
3344	B12
3345	B 4
3361	N 4
3362	N 5
3363	F11
3364	G11
3368	M 7
3370	L 8
3371	L 6
3372	L 8
3373	L 9
3374	B12
3375	L 7
3376	L 7
3382	N 9
3383	L 4
3384	L 4
3385	L 5
3391	L 6
3392	K12
3392	H12
3395	H12
3395	J12
3396	G 7
3397	G 7
3411	G 4
3412	H 4
3413	G 4
3414	H 4
3415	G 5
3421	J 5
3422	J 3
3423	J 5
3431	D 4
3432	A 5
3433	D13
3434	D14
3435	E13
3436	F14
3442	M 6
3443	N 6
3446	M 4
3447	G11
3448	M10
3449	H11
3449	J11
3512	N18
3518	N18
3520	M18
3521	M17
3522	M16
3524	M14
3525	I16
3525	M14
3526	K14
3527	H15
3527	K14
3528	H17
3528	L15
3529	I17
3529	M15
3530	K15
3531	K16
3532	G17
3532	K16
3533	H16
3533	L14
3534	H18
3534	L17
3536	M15
3571	I13
3571	K13
3572	H13
3572	J13
3575	N12
3575	I12
3576	I13
3576	O13
3578	K14
3580	H13
3580	K13
4002	J 4
4002	G 5
4301	A 4
4302	N 9
5401	D13
5530	H18
5530	L17
6301	E10
6331	E10
6345	B 4
6361	E10
6382	H11
6382	J11
6411	H 3
6421	J 4
6422	K 5
6518	N18
6519	N18
7302	D 7
7303	E 7
7304	C 9
7305	D 9
7331	H 7
7333	I 7
7334	H 9
7335	H 9
7345	B 4
7361	M 7
7363	N 7
7364	L 9
7365	M 9
7383	M10
7391	L 5
7402	H11
7402	J11
7411	G 4
7421	J 4
7530	H17
7530	L15
7533	M16
7534	H17
7534	L16
7536	O12
7536	I12
7537	K15
7538	H12
7538	K12
9530	M17



TP 51
130 V_{pp}
115 V_{pp} for 21"



TP 52
120 V_{pp}
115 V_{pp} for 21"

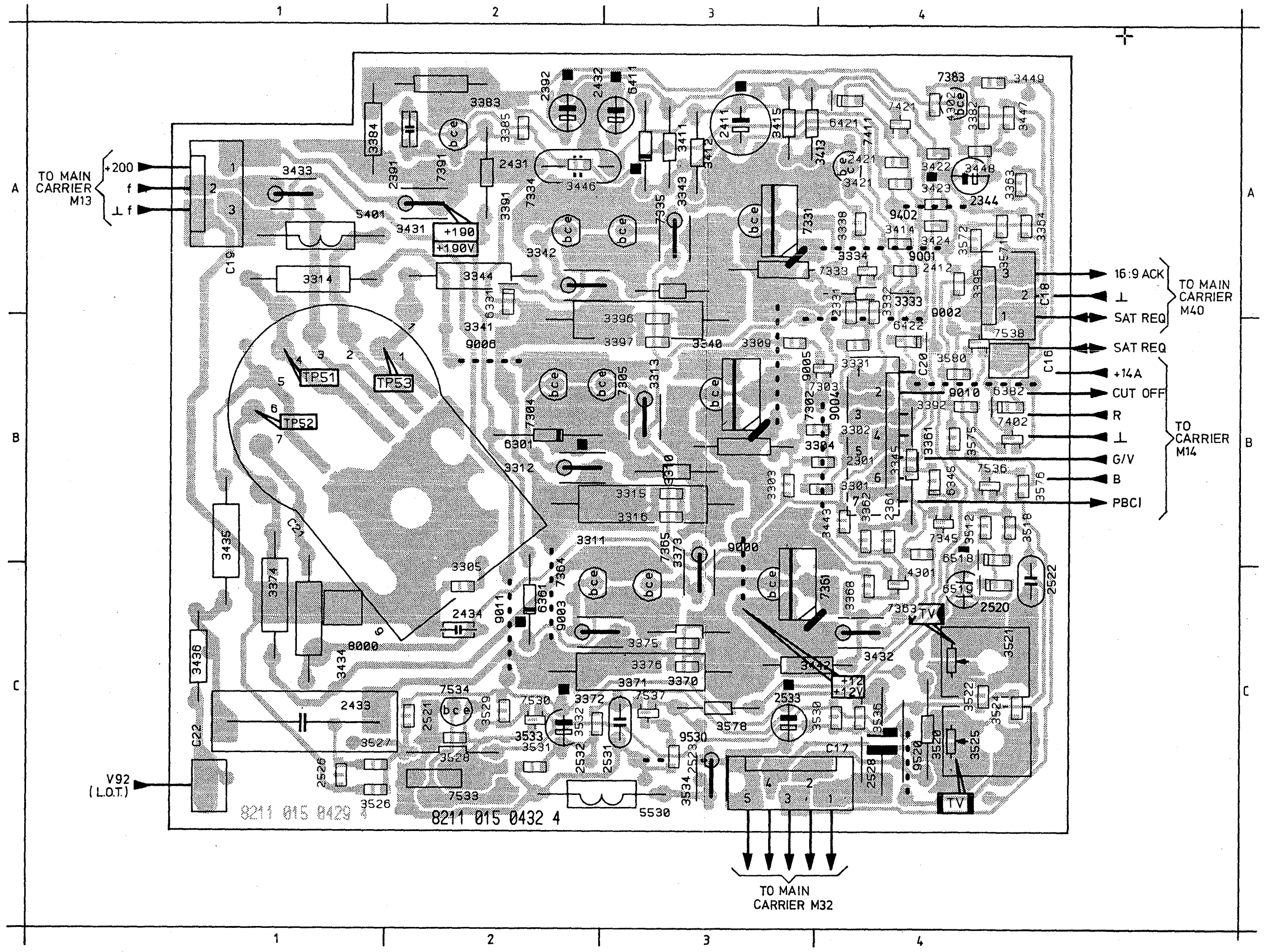


TP 53
120 V_{pp}
110 V_{pp} for 21"

PCB9 New version Marked 8211 015 0429 5 in the copperfoil

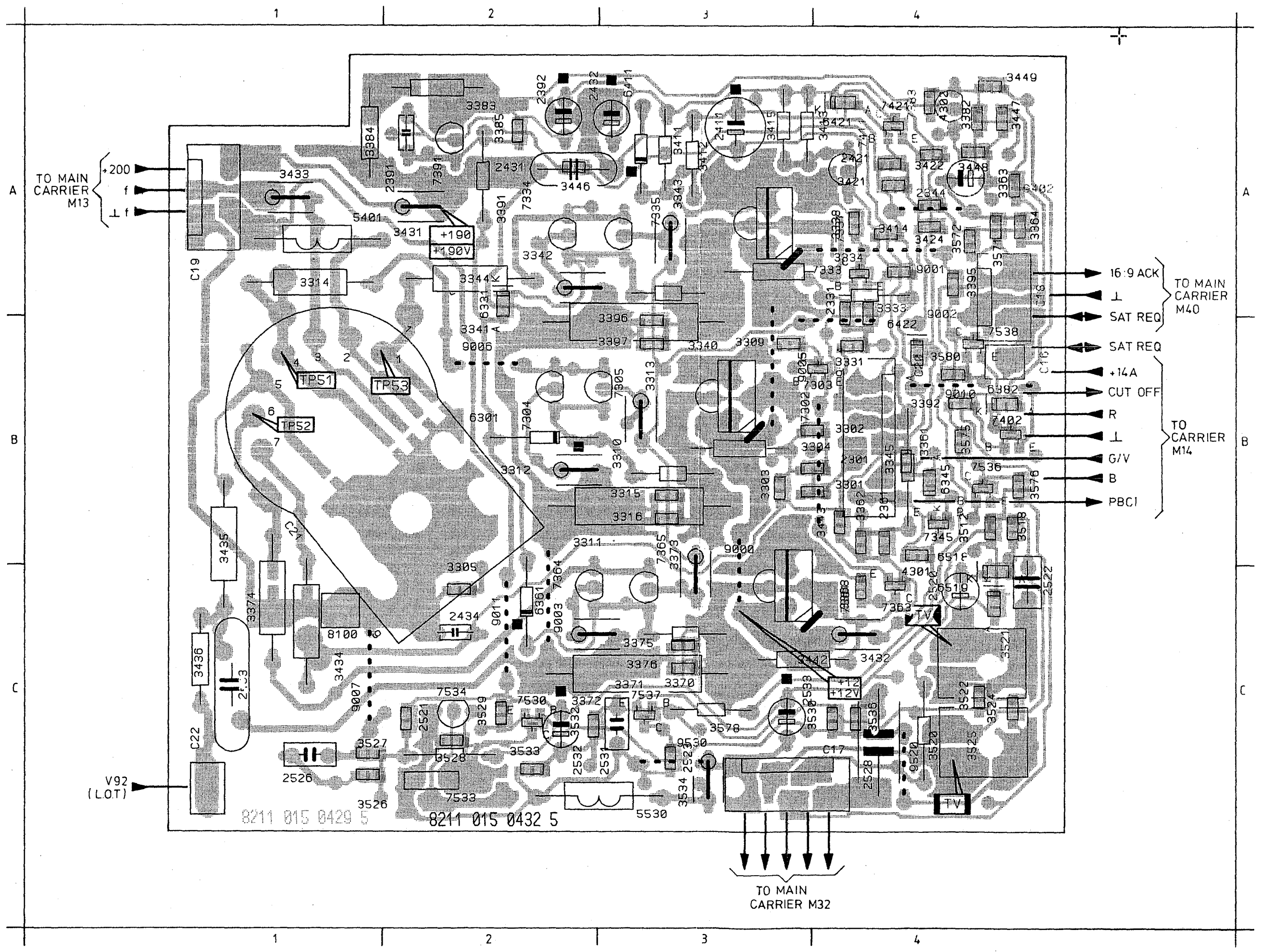
2433	3n3
2523	33n
2526	10n
3311	15k
3315	180k
3316	220k
3371	15k
3375	180k
3376	220k
3382	3k6
3396	deleted
3397	deleted
3449	47k
3527	6k8
3533	18k
6301	BAV 21
6361	BAV 21
7533	BD 440

VIDEO OUTPUT MODULE 9


1
2
3
4
A
B
C
TO MAIN CARRIER M13
+200
f
⊥ f
TP51
TP52
TP53
16:9 ACK
⊥
SAT REQ
SAT REQ
TO MAIN CARRIER M40
+14A
CUT OFF
R
⊥
G/V
B
PBCI
TO CARRIER M14
+190
+190V
+12
+12V
TV
V92 (L.O.T.)
8211 015 0429 4
8211 015 0432 4
TO MAIN CARRIER M32

C16	B4	3371	C3	3580	B4
C18	A4	3372	C2	4301	B4
C19	A1	3373	C3	4302	A4
C20	B4	3374	C1	5401	A1
C21	B1	3375	C3	5530	C2
C22	C1	3376	C3	6301	B2
2301	B3	3382	A4	6331	A2
2331	A3	3383	A2	6345	B4
2344	A4	3384	A1	6361	C2
2361	B4	3385	A2	6382	B4
2391	A1	3391	A2	6411	A3
2392	A2	3392	B4	6421	A3
2411	A3	3395	A4	6422	B4
2412	A4	3396	A3	6518	B4
2421	A4	3397	B3	6519	C4
2431	A2	3411	A3	7302	B3
2432	A2	3412	A3	7303	B3
2433	C1	3413	A3	7304	B2
2434	C2	3414	A4	7305	B2
2520	C4	3415	A3	7331	A3
2521	C1	3421	A4	7333	A4
2522	C4	3422	A4	7334	A2
2523	C3	3423	A4	7335	A2
2526	C1	3424	A4	7345	B4
2528	C4	3431	A2	7361	C3
2531	C2	3432	C4	7363	C4
2532	C2	3433	A1	7364	C2
2533	C3	3434	C1	7365	C3
3301	B3	3435	B1	7383	A4
3302	B3	3436	C1	7391	A2
3303	B3	3442	C3	7402	B4
3304	B3	3443	B3	7411	A4
3305	C2	3446	A2	7421	A4
3309	B3	3447	A4	7530	C2
3310	B3	3448	A4	7533	C2
3311	B3	3449	A4	7534	C2
3312	B2	3512	B4	7536	B4
3313	B3	3518	B4	7537	C3
3314	A1	3520	C4	7538	B4
3315	B3	3521	C4	9000	B3
3316	B3	3522	C4	9001	A4
3331	B4	3524	C4	9002	A4
3332	A4	3525	C4	9003	C2
3333	A4	3526	C1	9004	B3
3334	A3	3527	C1	9005	B3
3338	A4	3528	C2	9006	B2
3340	A3	3529	C2	9010	B4
3341	A3	3530	C3	9011	C2
3342	A2	3531	C2	9402	A4
3343	A3	3532	C2	9520	C4
3344	A2	3533	C2	9530	C3
3345	B4	3534	C3		
3361	B4	3536	C4		
3362	B4	3571	A4		
3363	A4	3572	A4		
3364	A4	3575	B4		
3368	C4	3576	B4		
3370	C3	3578	C3		

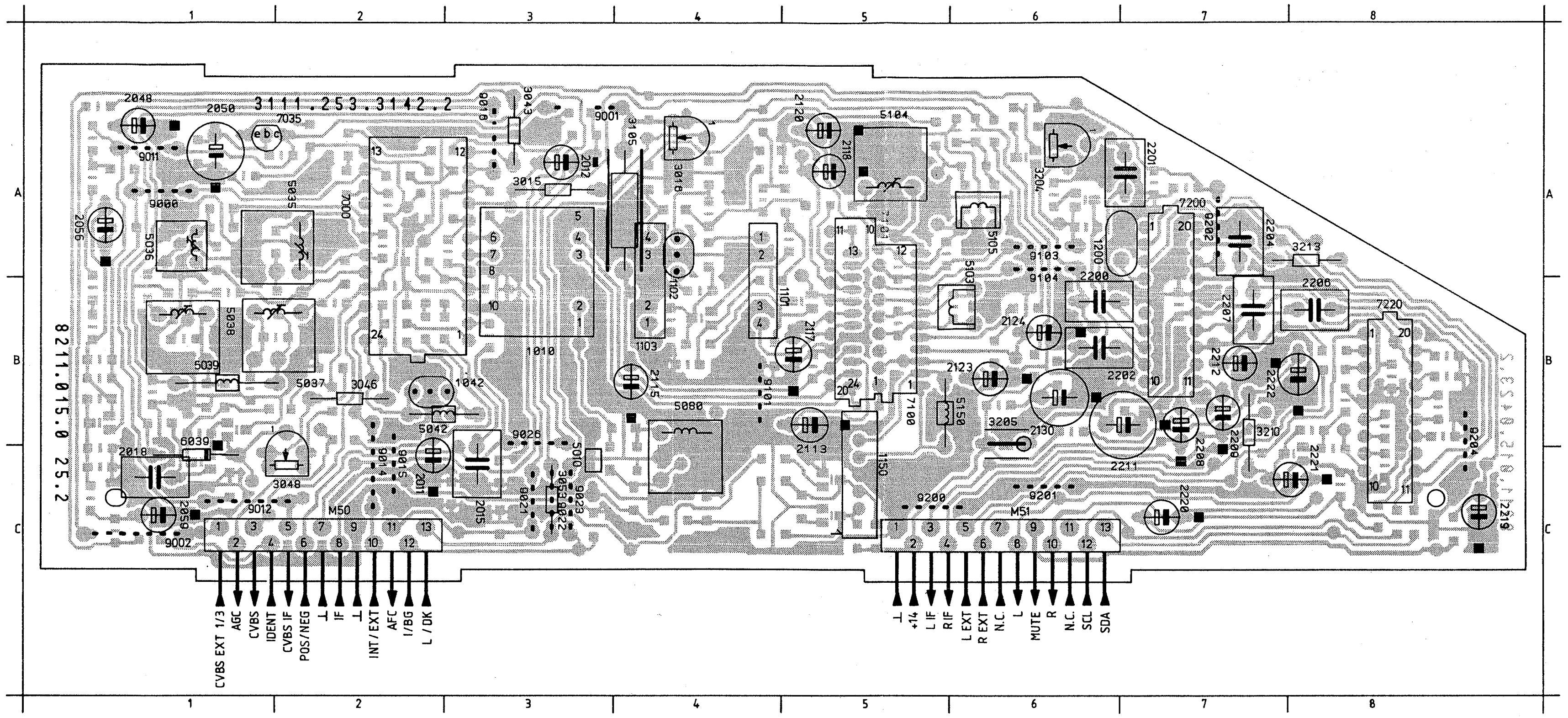
VIDEO OUTPUT MODULE 9
NEW VERSION

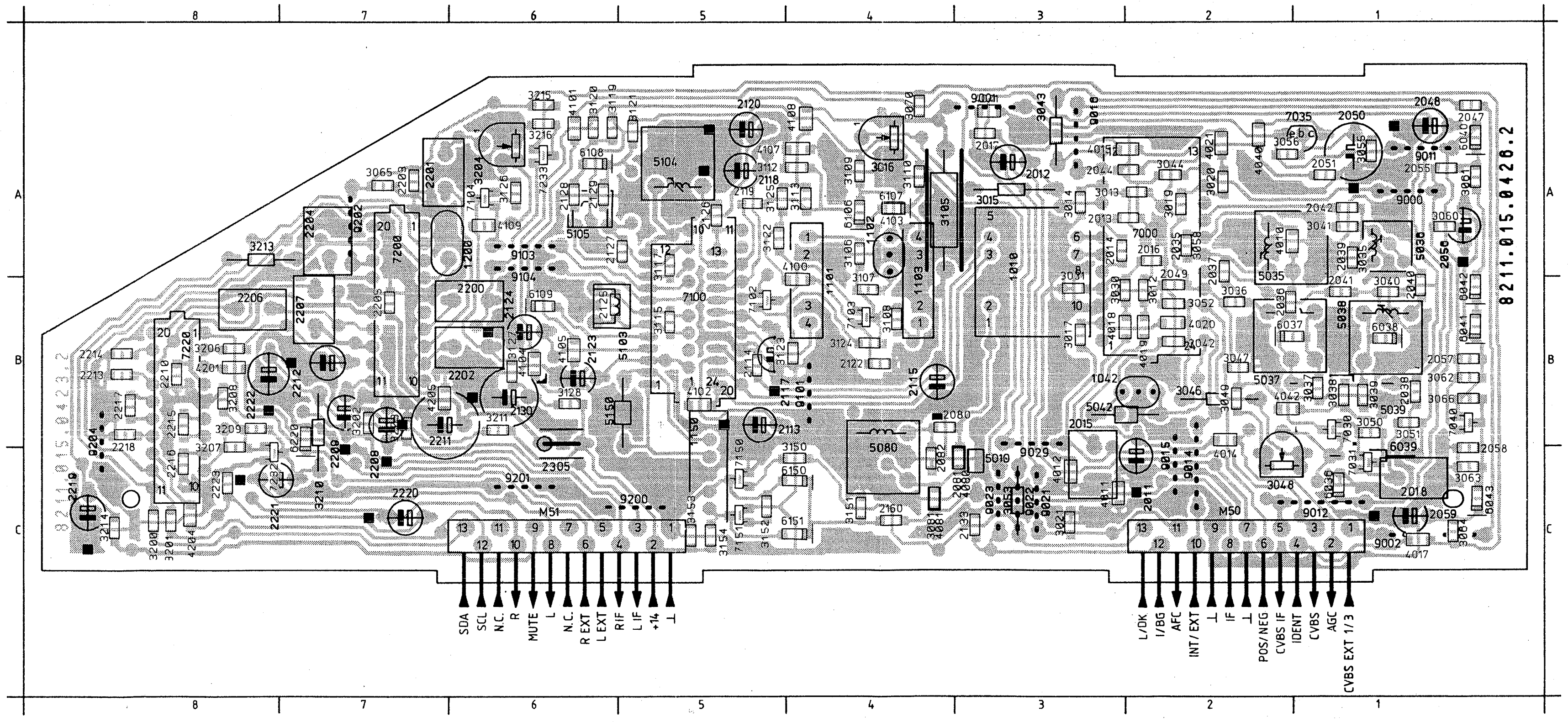

1
2
3
4
A
B
C
TO MAIN CARRIER M13
+200
f
⊥ f
TP51
TP52
TP53
16:9 ACK
⊥
SAT REQ
SAT REQ
TO MAIN CARRIER M40
+14A
CUT OFF
R
⊥
G/V
B
PBCI
TO CARRIER M14
+190
+190V
+12
+12V
TV
V92 (L.O.T.)
8211 015 0429 5
8211 015 0432 5
TO MAIN CARRIER M32

C16	B4	3371	C3	3580	B4
C18	A4	3372	C2	4301	B4
C19	A1	3373	C3	4302	A4
C20	B4	3374	C1	5401	A1
C21	B1	3375	C3	5530	C2
C22	C1	3376	C3	6301	B2
2301	B3	3382	A4	6331	A2
2331	A3	3383	A2	6345	B4
2344	A4	3384	A1	6361	C2
2361	B4	3385	A2	6382	B4
2391	A1	3391	A2	6411	A3
2392	A2	3392	B4	6421	A3
2411	A3	3395	A4	6422	B4
2412	A4	3396	A3	6518	B4
2421	A4	3397	B3	6519	C4
2431	A2	3411	A3	7302	B3
2432	A2	3412	A3	7303	B3
2433	C1	3413	A3	7304	B2
2434	C2	3414	A4	7305	B2
2520	C4	3415	A3	7331	A3
2521	C1	3421	A4	7333	A4
2522	C4	3422	A4	7334	A2
2523	C3	3423	A4	7335	A2
2526	C1	3424	A4	7345	B4
2528	C4	3431	A2	7361	C3
2531	C2	3432	C4	7363	C4
2532	C2	3433	A1	7364	C2
2533	C3	3434	C1	7365	C3
3301	B3	3435	B1	7383	A4
3302	B3	3436	C1	7391	A2
3303	B3	3442	C3	7402	B4
3304	B3	3443	B3	7411	A4
3305	C2	3446	A2	7421	A4
3309	B3	3447	A4	7530	C2
3310	B3	3448	A4	7533	C2
3311	B3	3449	A4	7534	C2
3312	B2	3512	B4	7536	B4
3313	B3	3518	B4	7537	C3
3314	A1	3520	C4	7538	B4
3315	B3	3521	C4	9000	B3
3316	B3	3522	C4	9001	A4
3331	B4	3524	C4	9002	A4
3332	A4	3525	C4	9003	C2
3333	A4	3526	C1	9004	B3
3334	A3	3527	C1	9005	B3
3338	A4	3528	C2	9006	B2
3340	A3	3529	C2	9010	B4
3341	A3	3530	C3	9011	C2
3342	A2	3531	C2	9402	A4
3343	A3	3532	C2	9520	C4
3344	A2	3533	C2	9530	C3
3345	B4	3534	C3		
3361	B4	3536	C4		
3362	B4	3571	A4		
3363	A4	3572	A4		
3364	A4	3575	B4		
3368	C4	3576	B4		
3370	C3	3578	C3		

2-15
PCB DRAWINGS

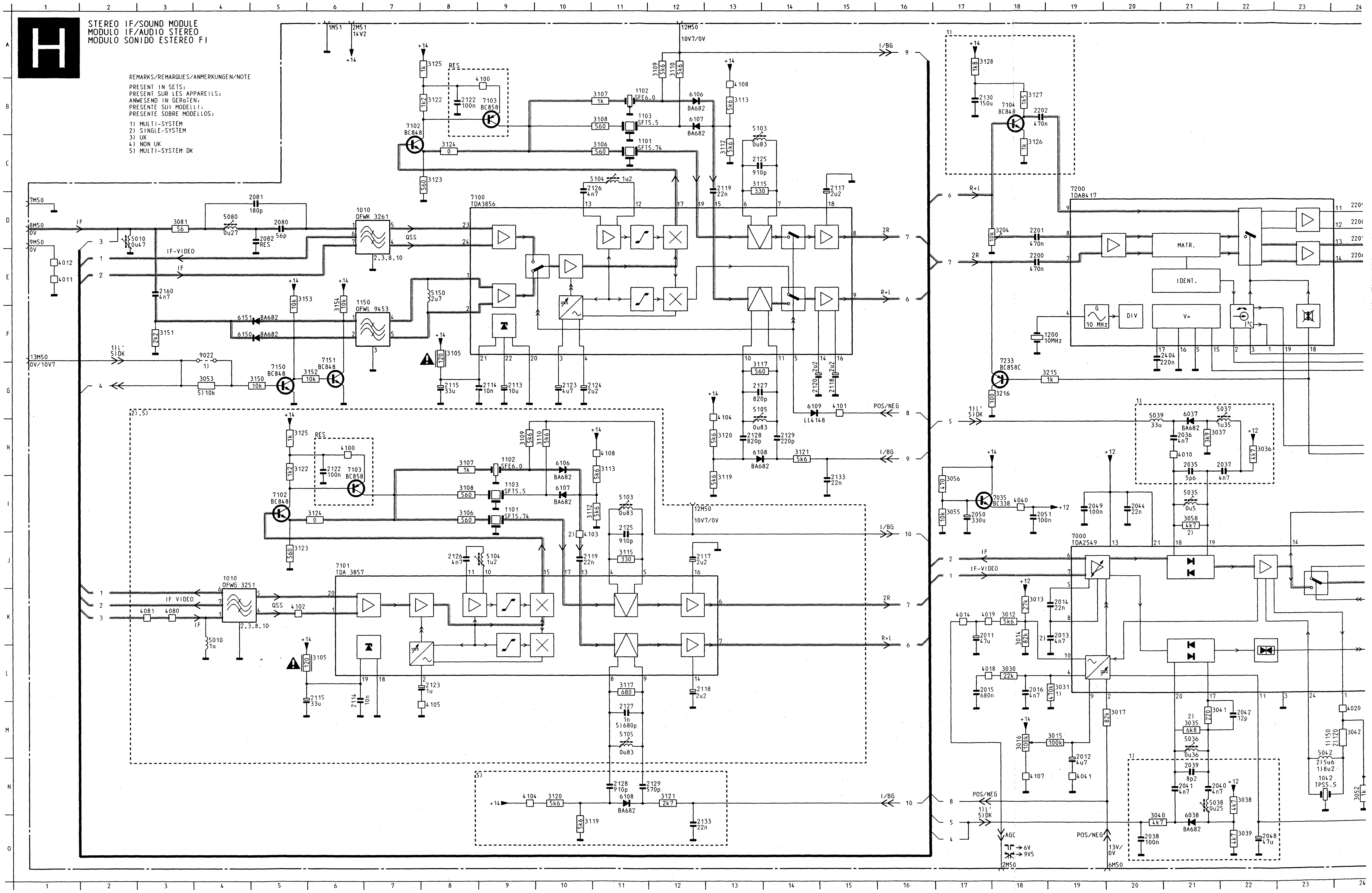
2-15
IF & SOUND A2
MODULE 11


3111.253.3142.2
M50
M51
CVBS EXT 1/3
AGC
CVBS
IDENT
CVBS IF
POS/NEG
⊥
IF
⊥
INT/EXT
AFC
I/BG
L/DK
⊥
+14
L IF
R IF
L EXT
R EXT
N.C.
L
MUTE
R
N.C.
SCL
SDA


M51
M50
SDA
SCL
N.C.
R
MUTE
L
N.C.
R EXT
L EXT
RIF
L IF
+14
⊥
L/DK
I/BG
AFC
INT/EXT
⊥
IF
⊥
POS/NEG
CVBS IF
IDENT
CVBS
AGC
CVBS EXT 1/3

M50	C2
M51	C6
1010	B4
1042	B3
1101	A5
1102	A4
1103	B4
1150	C5
1200	A7
2011	C3
2012	A3
2013	A3
2014	A3
2015	C3
2016	A3
2017	A4
2018	C1
2035	A2
2036	B2
2037	A2
2038	B1
2039	A1
2040	B1
2041	B1
2042	A1
2044	A3
2048	A1
2049	B2
2050	A1
2051	A2
2055	A1
2056	A1
2057	B1
2058	C1
2059	C1
2080	B4
2081	C4
2082	C4
2113	B5
2114	B5
2115	B4
2117	B5
2118	A5
2119	A5
2120	A5
2122	B4
2123	B6
2124	B6
2125	B6
2126	A5
2127	A6
2128	A6
2129	A6
2130	B6
2133	C4
2160	C4
2200	B7
2201	A7
2202	B7
2203	A7
2204	A7
2205	B7
2206	B8
2207	B8
2208	B7
2209	B7
2210	B8
2211	B7
2212	B7
2213	B9
2214	B9
2215	B8
2216	C8
2217	B9
2218	B9
2219	C9
2220	C7
2221	C8
2222	B8
2223	C8
3012	B3
3013	A3
3014	A3
3015	A3
3016	A4
3017	B3
3019	A2
3020	A2
3021	C3
3030	B3
3031	B3
3035	A1
3036	B2
3037	B2
3038	B1
3039	B1
3040	B1
3041	A1
3042	B2
3043	A3
3044	A2
3046	B2
3047	B2
3048	C2
3049	B2
3050	B1
3051	B1
3052	B2
3053	C3
3055	A1
3056	A2
3058	A2
3060	A1
3061	A1
3062	B1
3063	C1
3064	C1
3065	A7
3066	B1
3070	A4
3081	C4
3105	A4
3106	A4
3107	B4
3108	B4
3109	A4
3110	A4
3112	A5
3113	A5
3115	B5
3117	A5
3119	A6
3120	A6
3121	A6
3122	A5
3123	B5
3124	B4
3125	A5
3126	A6
3127	B6
3128	B6
3150	C5
3151	C4
3152	C5
3153	C5
3154	C5
3200	C9
3201	C8
3202	B7
3203	B7
3204	A6
3205	C6
3206	B8
3207	C8
3208	B8
3209	B8
3210	B8
3211	B6
3213	A8
3214	C9
3215	A6
3216	A6
4010	A2
4011	C3
4012	C3
4014	B2
4015	A3
4017	C1
4018	B3
4019	B3
4020	B2
4021	A2
4040	A2
4041	A4
4042	B2
4080	C4
4081	C4
4100	B5
4101	A6
4102	B5
4103	A4
4104	B6
4105	B6
4107	A5
4108	A5
4109	A7
4201	B8
4204	C8
4205	B7
5010	C4
5035	A2
5036	A1
5037	B2
5038	B1
5039	B1
5042	B3
5080	C4
5103	B6
5104	A5
5105	A6
5150	B6
6036	C2
6037	B2
6038	B1
6039	C1
6040	A1
6041	B1
6042	B1
6043	C1
6106	A4
6107	A4
6108	A6
6109	B6
6150	C5
6151	C5
6220	B8
7000	B3
7030	B2
7031	C1
7035	A2
7040	B1
7100	B5
7102	B5
7103	B4
7104	A7
7150	C5
7151	C5
7200	A7
7220	B8
7232	C8
7233	A6
9000	A1
9001	A4
9002	C1
9011	A1
9012	C2
9014	C2
9015	C2
9016	A3
9021	C3
9022	C3
9023	C4
9026	C3
9101	B5
9103	A6
9104	A6
9200	C6
9201	C6
9202	A7
9204	C9

IF & SOUND A2 MODULE 11



H

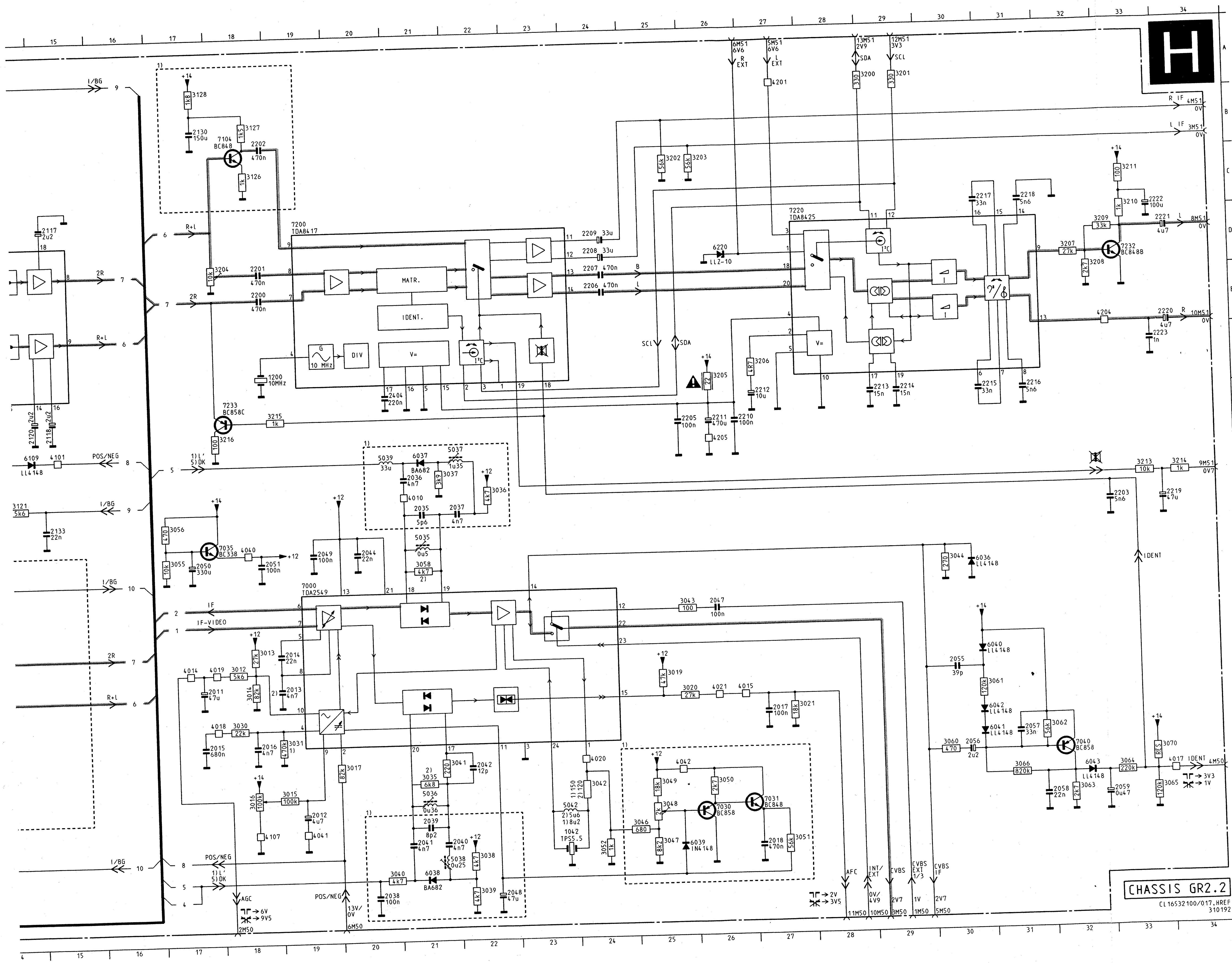
STEREO IF/SOUND MODULE
MODULO IF/AUDIO STEREO
MODULO SONIDO ESTEREO FI

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERaTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

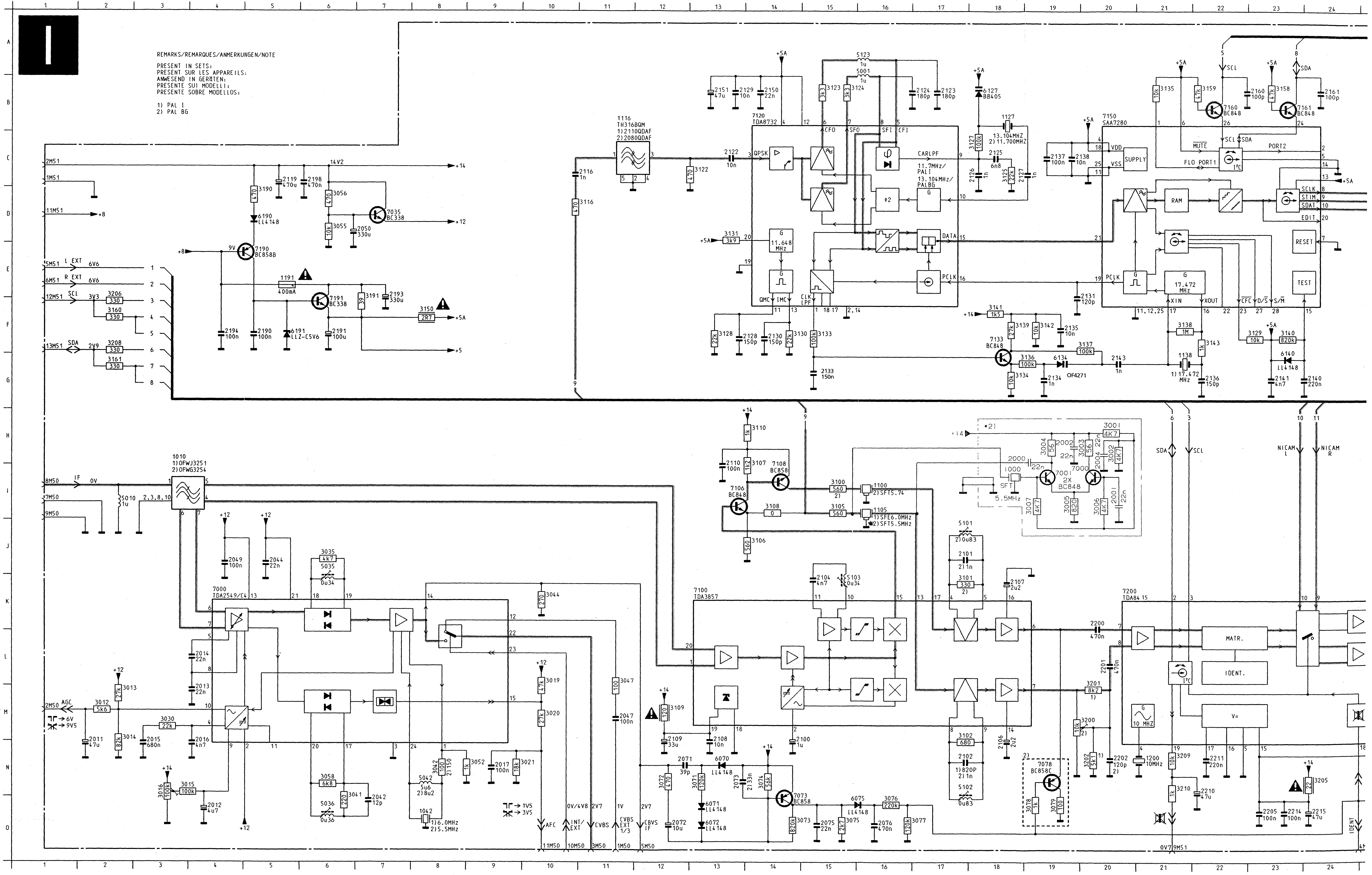
1) MULTI-SYSTEM
2) SINGLE-SYSTEM
3) UK
4) NON UK
5) MULTI-SYSTEM DK

1M51
2M51 14V2
12M50 10V7/0V
7M50
8M50 0V
9M50 0V
13M50 0V/10V7
IF
IF-VIDEO
QSS
I/BG
2R
R+L
POS/NEG
1) L'
5) DK
7100 TDA3856
7101 TDA 3857
7200 TDA8417
7000 TDA2549
1010 OFWK 3261
1010 OFWG 3251
1150 OFWL 9453
1102 SFE6,0
1103 SFT5,5
1101 SFT5,74
7102 BC848
7103 BC858
7150 BC848
7151 BC848
7104 BC848
7233 BC858C
7035 BC338
6106 BA682
6107 BA682
6108 BA682
6151 BA682
6150 BA682
6037 BA682
6038 BA682
6109 LL4148
5104 1u2
5103 0u83
5105 0u83
5080 0u27
5010 0u47
5150 2u7
5035 0u5
5036 0u36
5037 1u35
5038 0u25
5039 33u
1200 10MHz
1042 TPS5.5
MATR.
IDENT.
DIV
V=
10 MHz
I²C
AGC
6V
9V5
13V/ 0V
2M50
6M50
9022
1) 11150 2) 1120


H
CHASSIS GR2.2
CL 16532100/017.HREF
310192
7200
TDA8417
MATR.
IDENT.
DIV
V=
10 MHz
1200
10MHz
7220
TDA8425
7000
TDA2549
7104
BC848
7233
BC858C
7035
BC338
7232
BC848B
7040
BC858
7030
BC858
7031
BC848
6220
LLZ-10
6109
LL4148
6037
BA682
6038
BA682
6036
LL4148
6039
1N4148
6040
LL4148
6042
LL4148
6041
LL4148
6043
LL4148
1042
TPS5.5
R+L
2R
I/BG
POS/NEG
1)L'
5)DK
IF
IF-VIDEO
AGC
SCL
SDA
R IF
L IF
R EXT
L EXT
6M51
6V6
5M51
6V6
13M51
2V9
12M51
3V3
4M51
0V
3M51
0V
8M51
0V
10M51
0V
9M51
0V7
IDENT
4M50
3V3
1V
6V
9V5
2V
3V5
AFC
INT/EXT
CVBS
CVBS EXT 1/3
CVBS IF
0V/4V9
2V7
1V
2V7
13V/0V
2M50
6M50
11M50
10M50
3M50
1M50
5M50
+14
+12
15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34
A B C D E F G H I J K L M N O

1010	D 6	3044	I30	5080	D 4
1010	J 4	3046	N25	5103	B13
1042	N23	3047	N25	5103	I11
1101	C11	3048	M25	5104	J 9
1101	I 9	3049	M25	5104	C11
1102	B11	3050	M26	5105	G13
1102	H 9	3051	N27	5105	M11
1103	B11	3052	N24	5150	E 8
1103	I 9	3053	G 4	6036	I30
1150	F 6	3055	I17	6037	G21
1200	F18	3056	I17	6038	O21
2011	K17	3058	I21	6039	N25
2012	N19	3060	M30	6040	K30
2013	K19	3061	K30	6041	L30
2014	K19	3062	L31	6042	L30
2015	L17	3063	M32	6043	M32
2016	L18	3064	M33	6106	B12
2017	L27	3065	M33	6106	H10
2018	N27	3066	M31	6107	B12
2035	H21	3070	M33	6107	I10
2036	H21	3081	D 3	6108	H13
2037	H22	3105	F 8	6108	N11
2038	O20	3105	L 6	6109	G14
2039	N21	3106	C11	6150	F 5
2040	N21	3106	I 8	6151	F 5
2041	N21	3107	B11	6220	D26
2042	M22	3107	H 8	7000	J19
2044	I20	3108	B11	7030	N26
2047	J26	3108	I 8	7031	M27
2048	O22	3109	A12	7035	I18
2049	I19	3109	H 9	7040	M32
2050	I17	3110	A12	7100	D 8
2051	I18	3110	H10	7101	J 6
2055	K30	3112	C13	7102	B 7
2056	M30	3112	I11	7102	I 5
2057	L31	3113	B13	7103	B 9
2058	M31	3113	H11	7103	H 6
2059	M33	3115	C13	7104	B18
2080	D 5	3115	J11	7150	G 5
2081	D 5	3117	G13	7151	G 6
2082	D 5	3117	L11	7200	D19
2113	G 9	3119	I13	7220	D27
2114	G 9	3119	O10	7232	D33
2114	L 6	3120	H13	7233	G18
2115	G 8	3120	N10	9022	F 4
2115	L 6	3121	H14		
2117	C15	3121	N12		
2117	J12	3122	B 8		
2118	G15	3122	H 5		
2118	L12	3123	C 8		
2119	C13	3123	J 5		
2119	J10	3124	C 8		
2120	G14	3124	I 6		
2122	B 8	3125	A 8		
2122	H 6	3125	H 5		
2123	G10	3126	C18		
2123	L 8	3127	B18		
2124	G10	3128	A17		
2125	C13	3150	G 5		
2125	I11	3151	F 3		
2126	C10	3152	G 6		
2126	J 8	3153	E 5		
2127	G13	3154	E 6		
2127	M11	3200	A29		
2128	H13	3201	A29		
2128	N11	3202	B25		
2129	H14	3203	B26		
2129	N11	3204	D18		
2130	B17	3205	F26		
2133	I15	3206	F27		
2133	O12	3207	D32		
2160	E 3	3208	D32		
2200	E18	3209	D33		
2201	D18	3210	C33		
2202	B18	3211	C33		
2203	H33	3213	H33		
2205	G25	3214	H34		
2206	E24	3215	G19		
2207	D24	3216	G18		
2208	D24	4010	H21		
2209	D24	4011	E 1		
2210	G26	4012	E 1		
2211	G26	4014	K17		
2212	G27	4015	L26		
2213	G29	4017	M34		
2214	G29	4018	L17		
2215	G31	4019	K17		
2216	G31	4020	M24		
2217	C31	4021	L26		
2218	C31	4040	I18		
2219	H34	4041	N19		
2220	E34	4042	M25		
2221	D34	4080	K 3		
2222	C33	4081	K 3		
2223	F33	4100	B 9		
2404	F20	4100	H 6		
3012	K18	4101	G15		
3013	K18	4102	K 5		
3014	K18	4103	J10		
3015	M19	4104	G13		
3016	M18	4104	N 9		
3017	M20	4105	M 8		
3019	K25	4107	N18		
3020	L25	4108	B13		
3021	L27	4108	H11		
3030	L18	4201	A27		
3031	L19	4204	E33		
3035	M21	4205	G26		
3036	H22	5010	K 4		
3037	H21	5010	D 2		
3038	N22	5035	I21		
3039	O22	5036	M21		
3040	O20	5037	G22		
3041	M21	5038	N21		
3042	M24	5039	H20		
3043	J25	5042	M23		

*During the production filter no. 1105 is replaced by a small PCB with filt
no. 1000, transistor 7000 and 7001 in PAL BG TV's



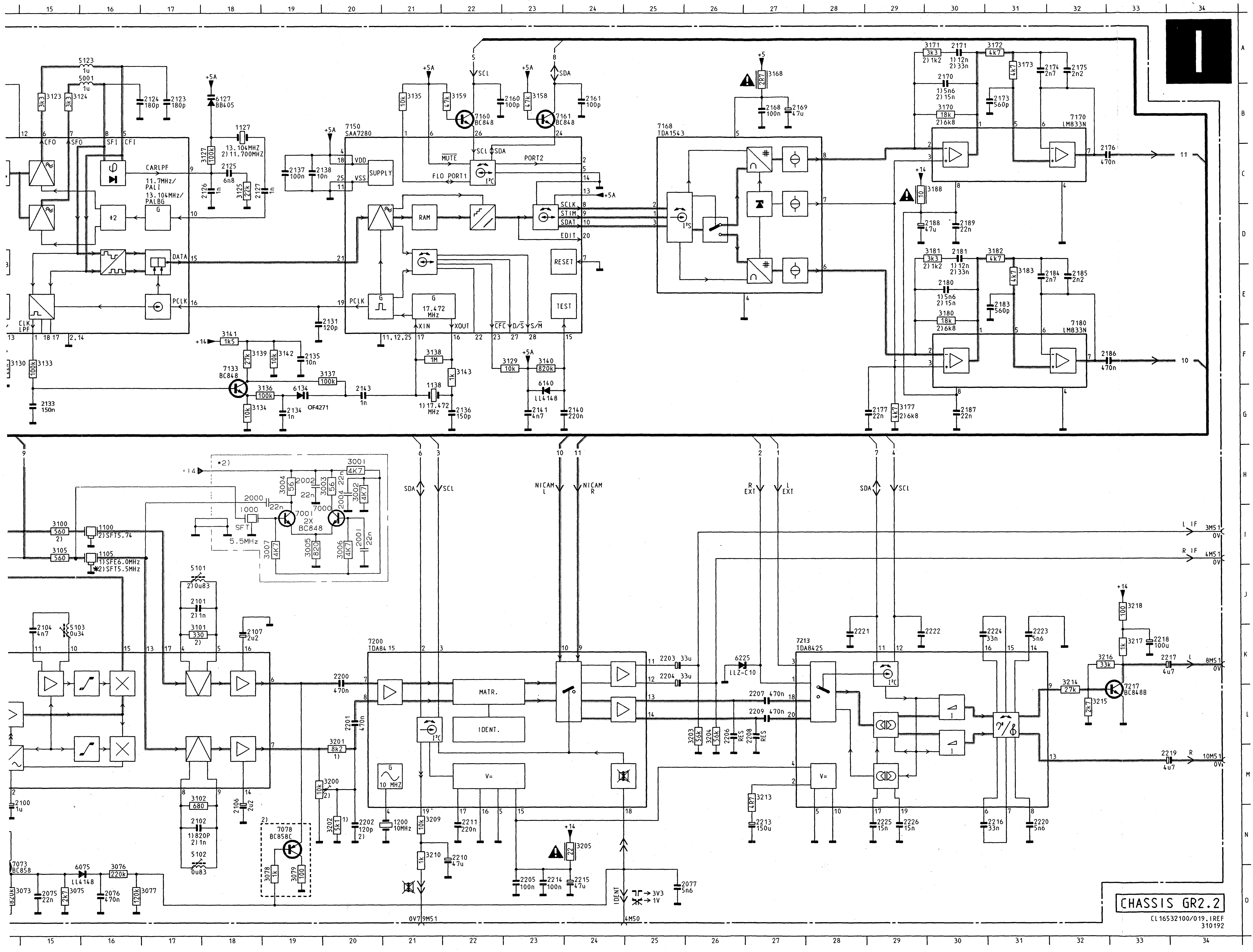
REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERÄTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) PAL I
2) PAL BG

I
1010 1) OFWJ3251 2) OFWG3254
1116 TH316BQM 1) 2110QDAF 2) 2080QDAF
7000 TDA2549/C4
7100 TDA3857
7120 TDA8732
7150 SAA7280
7200 TDA8415
7035 BC338
7190 BC858B
7191 BC338
7106 BC848
7108 BC858
7133 BC848
7160 BC848
7161 BC848
7073 BC858
7078 BC858C
7001 2X BC848
1000 SFT 5.5MHz
1100 2) SFT5.74
1105 1) SFE6.0MHz 2) SFT5.5MHz
1127 13.104MHZ 2) 11.700MHZ
1138 1) 17.472 MHz
1200 10MHz
1042 1) 6.0MHz 2) 5.5MHz
1191 400mA
2M51 1M51 11M51 5M51 6M51 12M51 13M51
8M50 7M50 9M50 2M50
11M50 10M50 3M50 1M50 5M50 0V7 9M51
L EXT R EXT SCL SDA
AGC IF AFC INT/EXT CVBS CVBS EXT 1/3 CBVS IF
14V2 +14 +12 +8 +5A +5
QPSK CFO SFO SFI CFI CARLPF DATA PCLK QMC IMC CLK LPF
11.7MHz/ PAL I 13.104MHz/ PAL BG
11.648 MHz
17.472 MHz
VDD VSS SUPPLY MUTE FLO PORT1 PORT2 I²C RAM SCLK STIM SDAI EDIT RESET TEST XIN XOUT CFC D/S S/M
MATR. IDENT. V= 10 MHZ
NICAM L NICAM R IDENT
OF4271 BB405 LL4148 LLZ-C5V6

*During the production filter no. 1105 is replaced by a small PCB with filter no. 1000, transistor 7000 and 7001 in PAL BG TV's

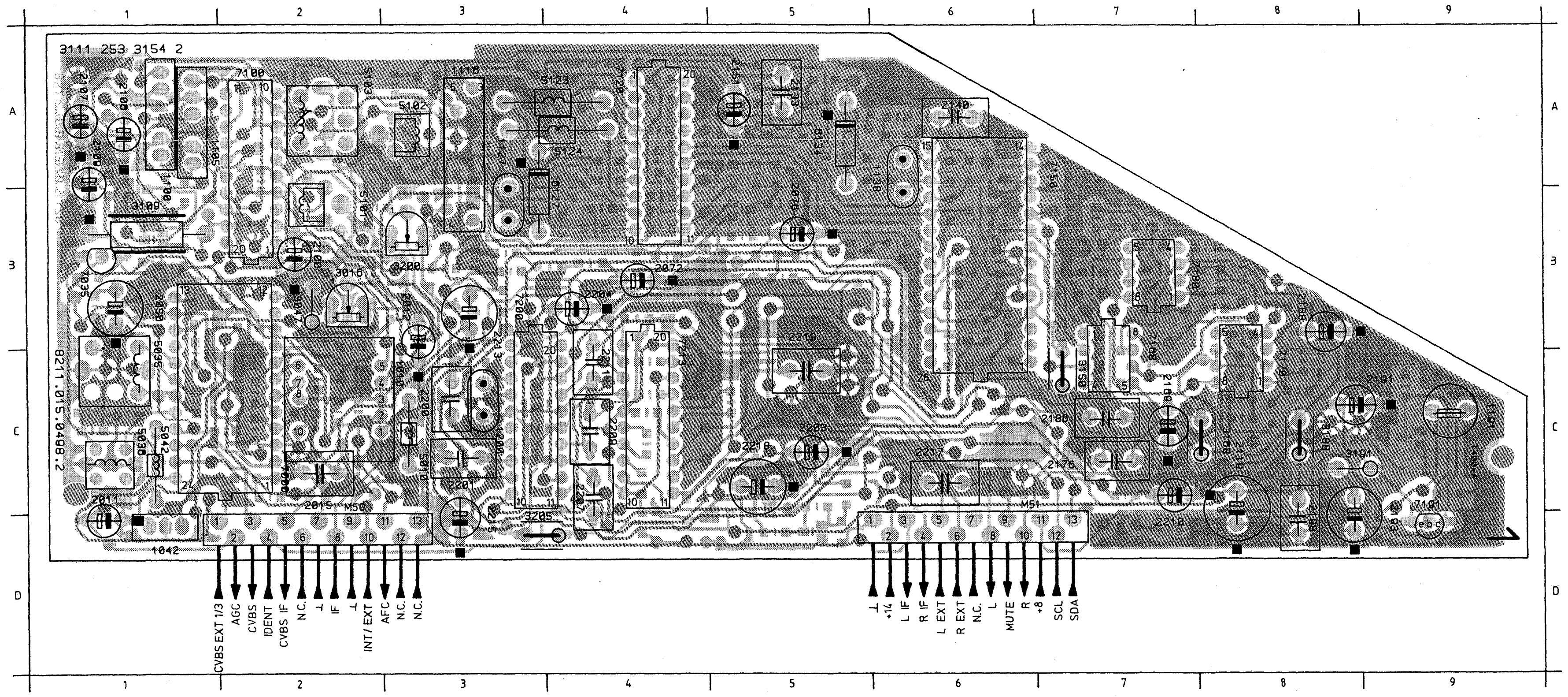

I
7150 SAA7280
7168 TDA1543
7170 LM833N
7180 LM833N
7200 TDA8415
7213 TDA8425
7160 BC848
7161 BC848
7133 BC848
7001 2X BC848
7000
7078 BC858C
7217 BC848B
7073 BC858
1127 13.104MHZ 2) 11.700MHZ
1138 1) 17.472 MHz
1100 2) SFT5.74
1105 1) SFE6.0MHz 2) SFT5.5MHz
1000 SFT 5.5MHz
1200 10MHz
6127 BB405
6134 OF4271
6140 LL4148
6075 LL4148
6225 LLZ-C10
CARLPF
11.7MHz/PAL I
13.104MHz/PALBG
CFO SFO SFI CFI
DATA
PCLK
CLK LPF
SCL SDA
MUTE
FLO PORT1
PORT2
VDD VSS SUPPLY
RAM
SCLK STIM SDAT
EDIT
RESET
TEST
17.472 MHz
XIN XOUT
CFC D/S S/M
I²C
I²S
SDA SCL
NICAM L
NICAM R
R EXT
L EXT
MATR.
IDENT.
V=
L IF 3M51 0V
R IF 4M51 0V
L 8M51 0V
R 10M51 0V
11
10
0V7
9M51
4M50
IDENT
3V3
1V
+5A
+5
+14
CHASSIS GR2.2
CL 16532100/019.IREF
310192

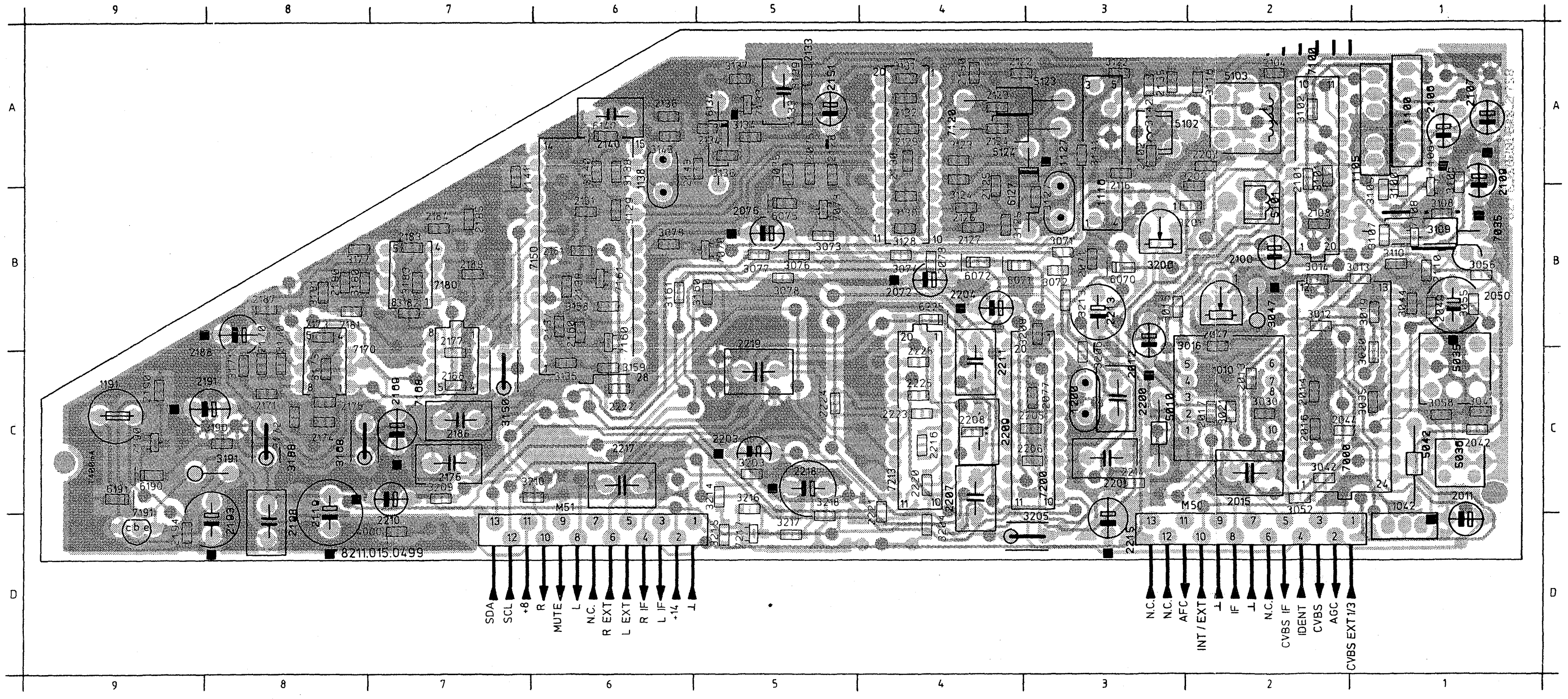
1010	H 3	3020	M10	7168	B25
1042	O 8	3021	N 9	7170	B32
1100	I16	3030	M 3	7180	F32
1105	I16	3035	J 6	7190	E 5
1116	B11	3041	N 6	7191	F 6
1127	B18	3042	N 8	7200	K20
1138	G21	3044	K10	7215	K27
1191	E 5	3047	L11	7217	L33
1200	N21	3052	N 9		
2011	N 2	3055	D 6		
2012	O 4	3056	D 6		
2013	M 4	3058	N 6		
2014	L 4	3071	N13		
2015	N 3	3072	N12		
2016	N 4	3073	O14		
2017	N 9	3074	N14		
2042	O 7	3075	O15		
2044	J 5	3076	O16		
2047	M11	3077	O16		
2049	J 4	3078	O19		
2050	D 7	3079	O19		
2071	N12	3100	I15		
2072	O12	3101	K17		
2073	N13	3102	M17		
2075	O15	3105	I15		
2076	O16	3106	J14		
2077	O25	3107	I14		
2100	N14	3108	I14		
2101	J17	3109	M12		
2102	N17	3110	H14		
2104	K15	3116	D11		
2106	N18	3122	C13		
2107	K18	3123	B15		
2108	N13	3124	B15		
2109	N12	3125	C18		
2110	I13	3127	C18		
2116	C11	3128	F13		
2119	C 5	3129	F23		
2122	C13	3130	F14		
2123	B17	3131	D13		
2123	G15	3133	F15		
2124	B17	3134	G18		
2125	C18	3135	B21		
2126	C18	3136	G19		
2127	C18	3137	F20		
2128	F13	3138	F21		
2129	B13	3139	F18		
2130	F14	3140	F23		
2131	E20	3141	F18		
2134	G19	3142	F19		
2135	F19	3143	F22		
2136	G22	3150	F 8		
2137	C19	3158	B23		
2138	C19	3159	B22		
2140	G24	3160	F 2		
2141	G23	3161	G 2		
2143	G20	3168	A27		
2150	B14	3170	B30		
2151	B13	3171	A30		
2160	B23	3172	A31		
2161	B24	3173	A31		
2168	B27	3177	G29		
2169	B27	3180	E30		
2170	A30	3181	D30		
2171	A30	3182	D31		
2173	B31	3183	E31		
2174	A31	3188	C30		
2175	A32	3190	C 5		
2176	C33	3191	E 7		
2177	G29	3200	M20		
2180	E30	3201	L20		
2181	D30	3202	N20		
2183	E31	3203	L26		
2184	E31	3204	L26		
2185	E32	3205	N24		
2186	F33	3206	E 2		
2187	G30	3208	F 2		
2188	D29	3209	N21		
2189	D30	3210	N21		
2190	F 5	3213	M27		
2191	F 6	3214	L32		
2193	E 7	3215	L32		
2194	F 4	3216	K32		
2198	C 6	3217	K33		
2200	K20	3218	J33		
2201	L20	5001	A16		
2202	N20	5010	I 2		
2203	K25	5035	J 6		
2204	K25	5036	O 6		
2205	O23	5042	N 8		
2206	L26	5101	J17		
2207	L27	5102	N17		
2208	L27	5103	K15		
2209	L27	5123	A16		
2210	N22	6070	N13		
2211	N22	6071	O13		
2213	N27	6072	O13		
2214	O23	6075	O16		
2215	O24	6127	B18		
2216	N31	6134	G19		
2217	K33	6140	G23		
2218	K33	6190	D 5		
2219	M33	6191	F 5		
2220	N31	6225	K26		
2221	K28	7000	K 4		
2222	K29	7120	B14		
2223	K31	7035	D 7		
2224	K31	7073	O14		
2225	N29	7078	N19		
2226	N29	7100	K13		
3012	M 2	7106	I13		
3013	M 2	7108	I14		
3014	M 2	7133	F18		
3015	N 3	7150	B20		
3016	N 3	7160	B22		
3019	L10	7161	B23		

2-18
PCB DRAWINGS

2-18

IF SOUND A2 & NICAM MODULE 7


3111 253 3154 2
8211.015.0498.2
1042
2015
M50
M51
CVBS EXT 1/3
AGC
CVBS
IDENT
CVBS IF
N.C.
⊥
IF
⊥
INT / EXT
AFC
N.C.
N.C.
⊥
+14
L IF
R IF
L EXT
R EXT
N.C.
L
MUTE
R
+8
SCL
SDA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M50
SDA
SCL
+8
R
MUTE
L
N.C.
R EXT
L EXT
R IF
L IF
+14
⊥
N.C.
N.C.
AFC
INT / EXT
⊥
IF
⊥
N.C.
CVBS IF
IDENT
CVBS
AGC
CVBS EXT 1/3

M50	D2
M51	D6
1010	C2
1042	D1
1100	A1
1105	A1
1116	A3
1127	B3
1138	B6
1191	C9
1200	C3
2011	D1
2012	C3
2013	C2
2014	C2
2015	C2
2016	C2
2017	C2
2042	C1
2044	C2
2047	C2
2049	B1
2050	B1
2071	B3
2072	B4
2073	B4
2075	A5
2076	B5
2077	C3
2100	B2
2101	B2
2102	A3
2104	A2
2106	A1
2107	A1
2108	B2
2109	B1
2110	B1
2116	A3
2119	C8
2122	A4
2123	A4
2124	A4
2125	B4
2126	B4
2127	B4
2128	B5
2129	A4
2130	A4
2131	B6
2132	A4
2133	A5
2134	A5
2135	A3
2136	A6
2137	B6
2138	B6
2140	A6
2141	B7
2143	A5
2151	A5
2160	B6
2161	B6
2168	C7
2169	C7
2170	C8
2171	C8
2173	B8
2174	C8
2175	C8
2176	C7
2177	C7
2180	B8
2181	B8
2183	B7
2184	B7
2185	B7
2186	C7
2187	B8
2188	B8
2189	B7
2190	C9
2191	C8
2193	D8
2194	D9
2198	D8
2200	C3
2201	C3
2202	A2
2203	C5
2204	B4
2205	C3
2206	C3
2207	C4
2208	C4
2209	C4
2210	C7
2211	C4
2213	B3
2214	C3
2215	D3
2216	C4
2217	C6
2218	C5
2219	C5
2220	C4
2221	D4
2222	C6
2223	C4
2224	C5
2225	C4
2226	C4
3012	B2
3013	B1
3014	B2
3015	B3
3016	B2
3019	B1
3020	C1
3021	C2
3030	C2
3035	C1
3041	C1
3042	C2
3044	B1
3047	B2
3052	C2
3055	B1
3056	B1
3058	C1
3071	B3
3072	B3
3073	B5
3074	B4
3075	B5
3076	B5
3077	B5
3078	B5
3079	B6
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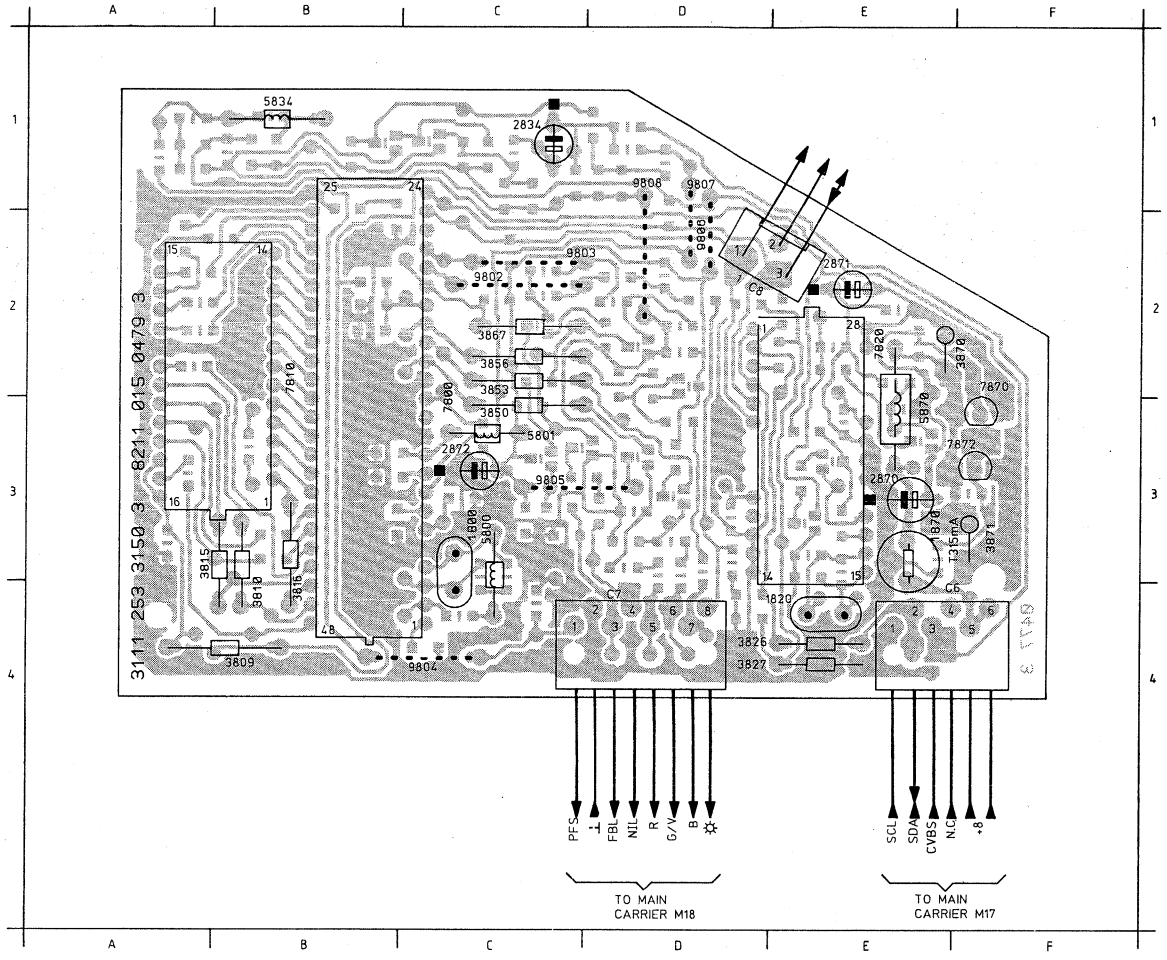
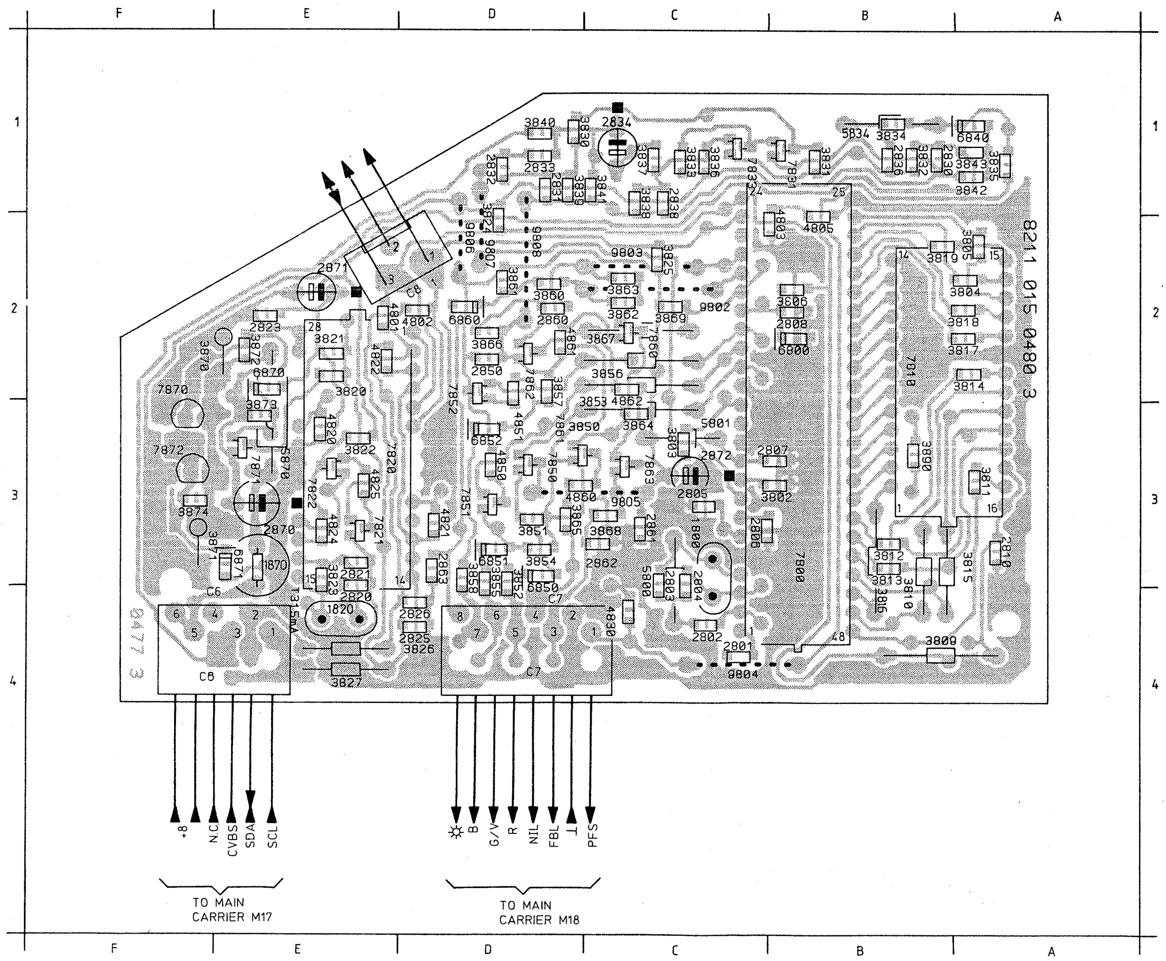
3105	B1
3106	B1
3107	B1
3108	B1
3109	B1
3110	B1
3116	A2
3122	A3
3123	A4
3124	B4
3125	B4
3127	B3
3128	B4
3129	B6
3130	B4
3131	A4
3133	A5
3134	A5
3135	C6
3136	A5
3137	A5
3138	A6
3139	A5
3140	A6
3141	A3
3142	A3
3143	A6
3150	C7
3158	B6
3159	C6
3160	B5
3161	B6
3168	C8
3170	C8
3171	C8
3172	C8
3173	C8
3177	B8
3180	B8
3181	B8
3182	B7
3183	B7
3188	C8
3190	C8
3191	C8
3200	B3
3201	B2
3202	B2
3203	C5
3204	D4
3205	D3
3206	C3
3208	B3
3209	C7
3210	C6
3213	B3
3214	C5
3215	D5
3216	D5
3217	D5
3218	D5
4000	D7
4199	B9
5010	C3
5035	C1
5036	C1
5042	C1
5101	B2
5102	A3
5103	A2
5123	A4
5124	A4
6070	B3
6071	B4
6072	B4
6075	B5
6127	B3
6134	A5
6140	A6
6190	C9
6191	C9
6225	B4
7000	C2
7035	B1
7073	B5
7078	B5
7100	B2
7106	B1
7108	B1
7120	A4
7133	A5
7150	C6
7160	C6
7161	B6
7168	B7
7170	C8
7180	B7
7190	C9
7191	D9
7200	C3
7213	C4
7217	D5

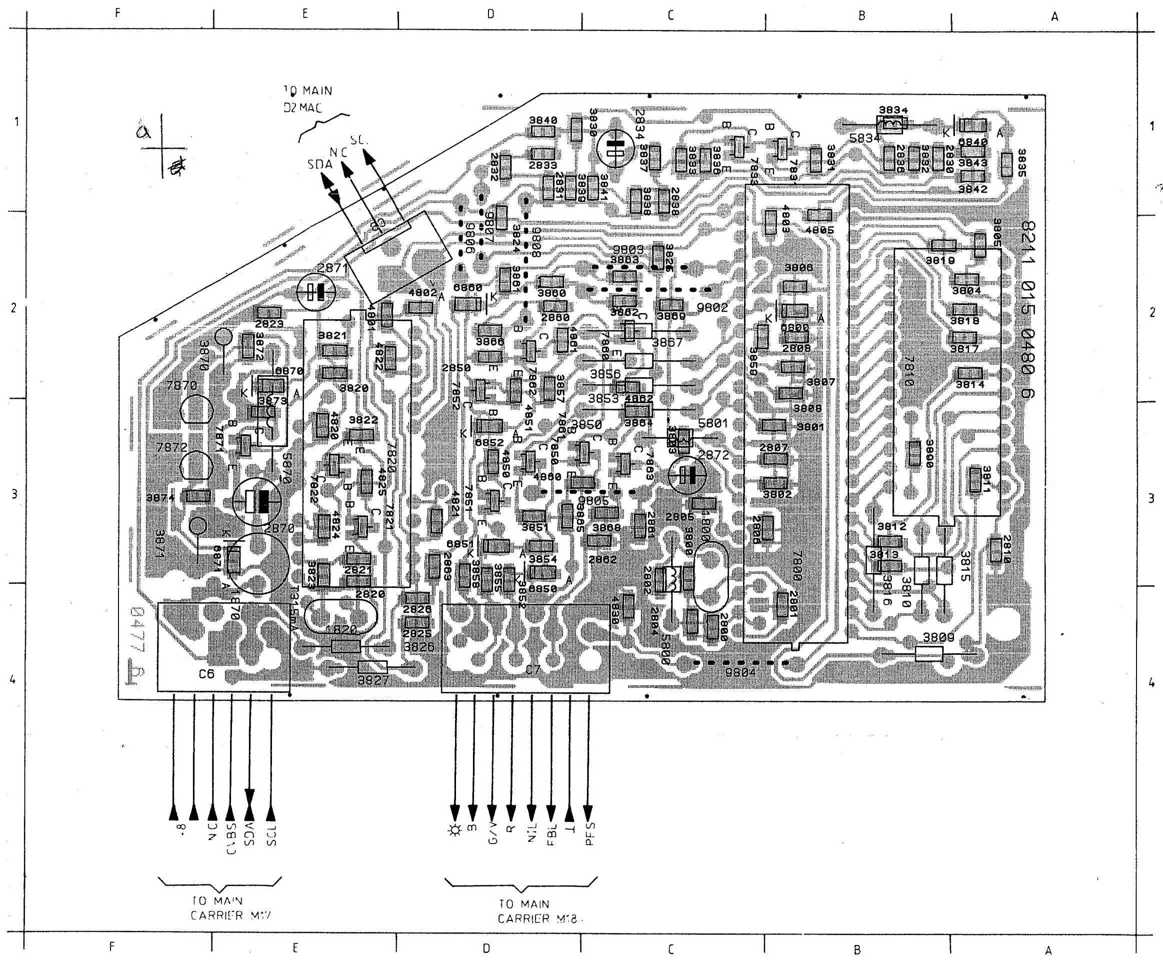
TELETEXT MODULE 8


A
B
C
D
E
F
1
2
3
4
3111 253 3150 3 8211 015 0479 3
T315mA
C6
C7
C8
PFS
T
FBL
NIL
R
G/V
B
☼
SCL
SDA
CVBS
N.C
+8
TO MAIN CARRIER M18
TO MAIN CARRIER M17

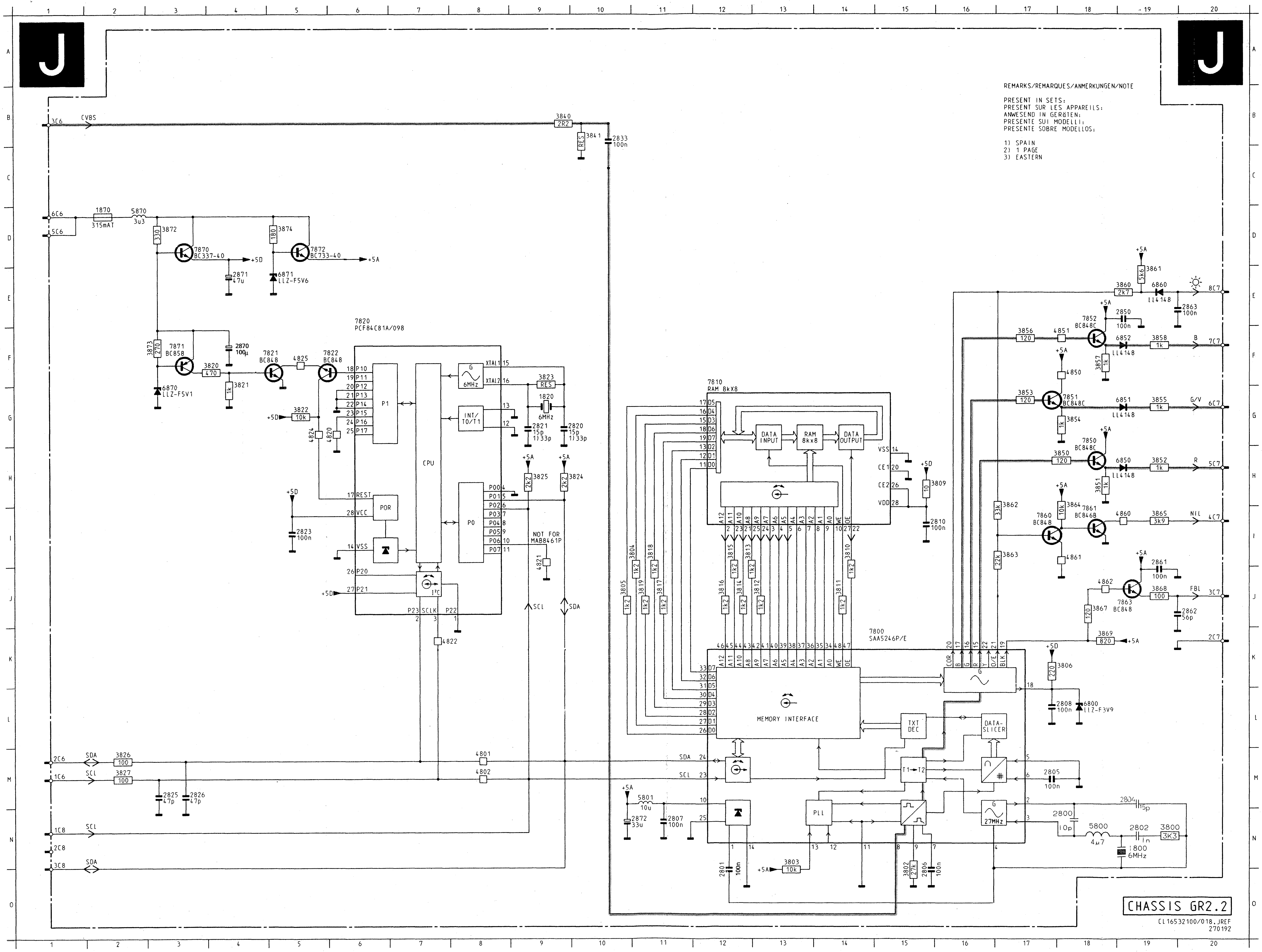

F
E
D
C
B
A
1
2
3
4
8211 015 0480 3
0477 3
T315mA
C6
C7
C8
+8
N.C
CVBS
SDA
SCL
☼
B
G/V
R
NIL
FBL
T
PFS
TO MAIN CARRIER M17
TO MAIN CARRIER M18

Component	Position
C6	E4
C7	D4
C8	D2
1800	C3
1820	E4
1870	E3
2801	C4
2802	C4
2803	C4
2804	C4
2805	C3
2806	B3
2807	B3
2808	B2
2810	A3
2820	E4
2821	E3
2823	E2
2825	D4
2826	D4
2830	A1
2831	D1
2832	D1
2833	D1
2834	C1
2836	B1
2838	C1
2850	D2
2860	D2
2861	C3
2862	C3
2863	D3
2870	E3
2871	E2
2872	C3
3802	B3
3803	C3
3804	A2
3805	A2
3806	B2
3809	A4
3810	B3
3811	A3
3812	B3
3813	B3
3814	A2
3815	A3
3816	B3
3817	A2
3818	A2
3819	A2
3820	E2
3821	E2
3822	E3
3823	E4
3824	D2
3825	C2
3826	E4
3827	E4
3830	C1
3831	B1
3832	B1
3833	C1
3834	B1
3835	A1
3836	C1
3837	C1
3838	C1
3839	C1
3840	D1
3841	C1
3842	A1
3843	A1
3850	C3
3851	D3
3852	D4
3853	C2
3854	D3
3855	D4
3856	C2
3857	D3
3858	D4
3860	D2
3861	D2
3862	C2
3863	C2
3864	C3
3865	C3
3866	D2
3867	C2
3868	C3
3869	C2
3870	E2
3871	E3
3872	E2
3873	E3
3874	E3
3890	B3
4801	D2
4802	D2
4803	B2
4805	B2
4820	E3
4821	D3
4822	D2
4824	E3
4825	E3
4830	C4
4850	D3
4851	D3
4860	C3
4861	D2
4862	C2
5800	C4
5801	C3
5834	B1
5870	E3
6800	B2
6840	A1
6850	D4
6851	D3
6852	D3
6860	D2
6870	E2
6871	E3
7800	B3
7810	B3
7820	D2
7821	E3
7822	E3
7831	B1
7833	C1
7850	D3
7851	D3
7852	D3
7860	C2
7861	C3
7862	D2
7863	C3
7871	E3
7872	F3
9802	C2
9803	C2
9804	C4
9805	C3
9806	D2
9807	D2
9808	D2

TELETEXT MODULE 8 NEW VERSION


F
E
D
C
B
A
1
2
3
4
TO MAIN D2 MAC
SDA
N.C
SCL
8211 015 0480 6
0477
C6
C7
+8
N.C
SDA
CVBS
SCL
☼
B
G/V
R
NIL
FBL
T
PFS
TO MAIN CARRIER M17
TO MAIN CARRIER M18

TELETEXT MODULE 8 (NEW VERSION)


J
J
CVBS
3C6
6C6
5C6
1870
315mAT
5870
3u3
3872
330
3874
180
7870
BC337-40
+5D
7872
BC733-40
+5A
2871
47u
6871
LLZ-F5V6
3873
270
7871
BC858
2870
100µ
3820
470
3821
1k
6870
LLZ-F5V1
7821
BC848
4825
7822
BC848
7820
PCF84C81A/098
3822
10k
4824
4820
P1
CPU
6MHz
XTAL1
XTAL2
INT/
T0/T1
1820
6MHz
3823
RES
2821
15p
1) 33p
2820
15p
1) 33p
3825
2k2
3824
2k2
REST
VCC
POR
VSS
P0
P20
P21
P23
SCLK
P22
I²C
2823
100n
NOT FOR
MAB8461P
4821
4822
SCL
SDA
3840
2R2
3841
RES
2833
100n
7810
RAM 8kX8
DATA
INPUT
RAM
8kx8
DATA
OUTPUT
VSS
CE1
CE2
VDD
3809
10
2810
100n
3804
3818
3805
3819
3817
3815
3813
3816
3814
3812
3810
3811
1k2
7800
SAA5246P/E
MEMORY INTERFACE
TXT
DEC
DATA-
SLICER
T1→T2
PLL
27MHz
COR
BLK
5801
10u
2807
100n
2872
33u
2801
100n
3803
10k
3802
27k
2806
100n
2805
100n
2804
15p
2800
10p
5800
4µ7
2802
1n
3800
3K3
1800
6MHz
3806
220
2808
100n
6800
LLZ-F3V9
3861
5k6
3860
2k7
6860
LL4148
8C7
2863
100n
2850
100n
7852
BC848C
3856
120
4851
6852
LL4148
3858
1k
B
7C7
4850
3857
1k
7851
BC848C
3853
120
6851
LL4148
3855
1k
G/V
6C7
3854
1k
7850
BC848C
3850
120
6850
LL4148
3852
1k
R
5C7
3851
1k
3862
33k
3864
10k
7860
BC848
7861
BC848
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3865
3k9
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4C7
4861
3863
22k
2861
100n
4862
7863
BC848
3868
100
FBL
3C7
3867
120
2862
56p
3869
820
2C7
2C6
SDA
3826
100
1C6
SCL
3827
100
4801
4802
2825
47p
2826
47p
1C8
2C8
3C8
SDA
SCL

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) SPAIN
2) 1 PAGE
3) EASTERN

CHASSIS GR2.2

CL 16532100/018.JREF
270192

1800	N18	6870	G 3
1820	G 9	6871	E 5
1870	D 2	7800	K14
2801	O12	7810	F12
2802	M18	7820	E 6
2803	N18	7821	F 5
2804	N18	7822	F 5
2805	M17	7831	B15
2806	O15	7833	B12
2807	N11	7850	G18
2808	L17	7851	G18
2810	I15	7852	E18
2820	G 9	7860	I17
2821	G 9	7861	I18
2823	I 5	7862	J18
2825	M 3	7863	J19
2826	M 3	7870	D 3
2830	B15	7871	F 3
2831	C15	7872	D 5
2832	C15		
2833	B10		
2834	B11		
2836	C13		
2838	B12		
2850	E19		
2860	J17		
2861	I19		
2862	J20		
2863	E20		
2870	F 4		
2871	E 4		
2872	N10		
3802	O15		
3803	N13		
3804	I11		
3805	J10		
3806	K17		
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3812	J13		
3813	I12		
3814	J12		
3815	I12		
3816	J12		
3817	J11		
3818	I11		
3819	J11		
3820	F 4		
3821	F 4		
3822	G 5		
3823	F 9		
3824	H 9		
3825	H 9		
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3854	G18		
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4860	I19		
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5800	N19		
5801	M11		
5834	C13		
5870	D 2		
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6840	D13		
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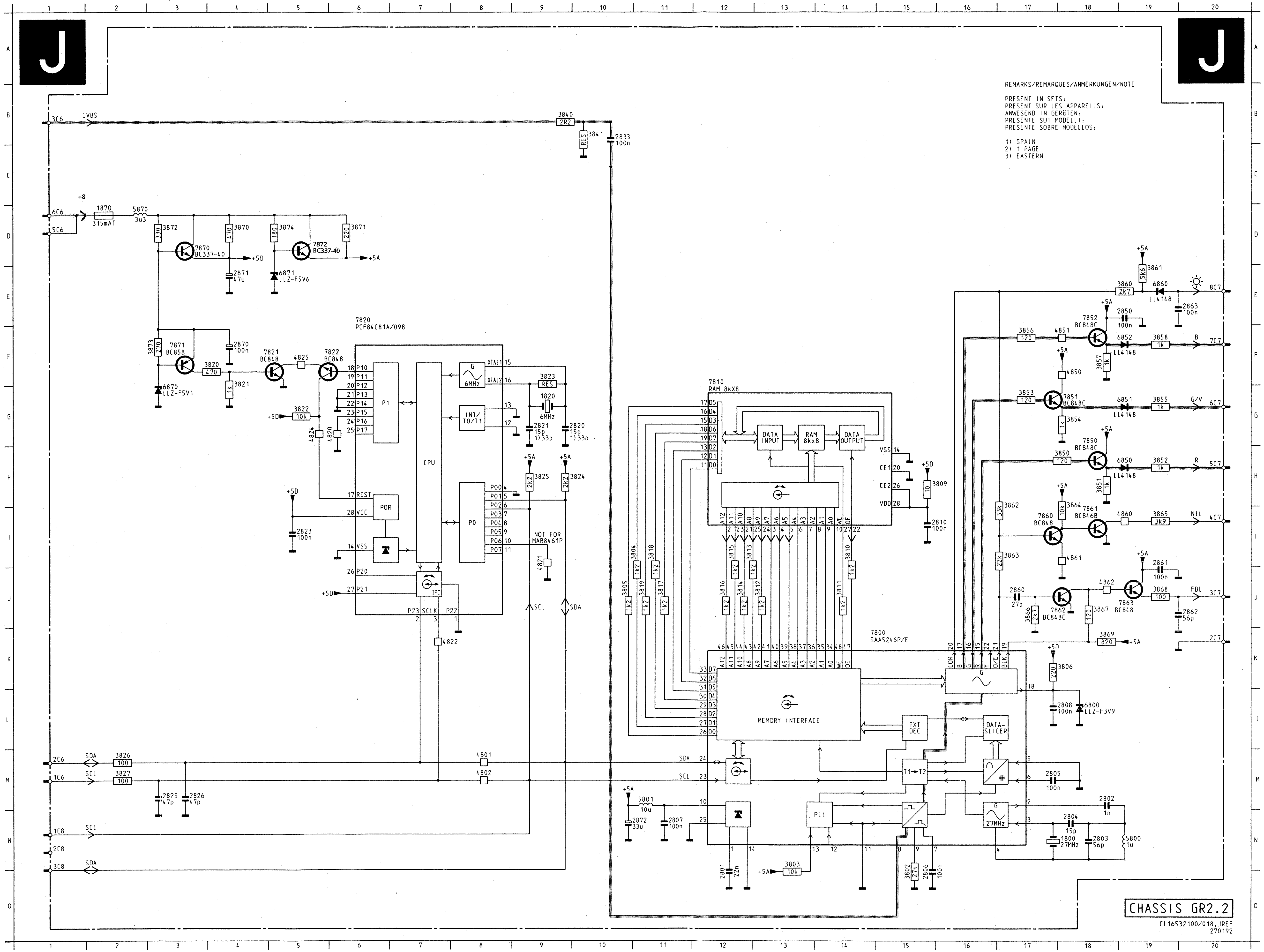
6852	F19		
6860	E19		

TELETEXT MODULE 8


J
J
1
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11
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18
19
20
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
3C6
CVBS
3840
2R2
3841
RES
2833
100n
+8
6C6
5C6
1870
315mAT
5870
3u3
3872
330
3870
470
3874
180
3871
220
7870
BC337-40
7872
BC337-40
+5D
+5A
2871
47u
6871
LLZ-F5V6
3873
270
7871
BC858
2870
100n
6870
LLZ-F5V1
3820
470
3821
1k
7821
BC848
4825
7822
BC848
3822
10k
4824
4820
7820
PCF84C81A/098
P1
CPU
P0
POR
6MHz
XTAL1
XTAL2
INT/
T0/T1
REST
VCC
VSS
P20
P21
P23
SCLK
P22
I²C
3823
RES
1820
6MHz
2821
15p
1) 33p
2820
15p
1) 33p
+5A
3825
2k2
3824
2k2
NOT FOR
MAB8461P
4821
SCL
SDA
4822
2823
100n
7810
RAM 8kX8
DATA
INPUT
RAM
8kx8
DATA
OUTPUT
VSS
CE1
CE2
VDD
3809
10
2810
100n
3804
1k2
3818
1k2
3805
1k2
3819
1k2
3817
1k2
3815
1k2
3813
1k2
3816
1k2
3814
1k2
3812
1k2
3810
1k2
3811
1k2
7800
SAA5246P/E
MEMORY INTERFACE
TXT
DEC
DATA-
SLICER
PLL
T1→T2
27MHz
COR
B
G
R
Y
O/E
BLK
+5D
3806
220
2808
100n
6800
LLZ-F3V9
2805
100n
2802
1n
2804
15p
1800
27MHz
2803
56p
5800
1u
2C6
SDA
3826
100
1C6
SCL
3827
100
2825
47p
2826
47p
4801
4802
1C8
2C8
3C8
5801
10u
2872
33u
2807
100n
2801
22n
3803
10k
3802
27k
2806
100n
3861
5k6
3860
2k7
6860
LL4148
8C7
2863
100n
7852
BC848C
2850
100n
3856
120
4851
6852
LL4148
3858
1k
B
7C7
4850
3857
1k
3853
120
7851
BC848C
6851
LL4148
3855
1k
G/V
6C7
3854
1k
7850
BC848C
3850
120
6850
LL4148
3852
1k
R
5C7
3851
1k
3862
33k
3864
10k
7861
BC846B
7860
BC848
4860
3865
3k9
NIL
4C7
3863
22k
4861
2861
100n
4862
7863
BC848
3868
100
FBL
3C7
2860
27p
7862
BC848C
3866
2k7
3867
120
2862
56p
3869
820
2C7

REMARKS/REMARQUES/ANMERKUNGEN/NOTE

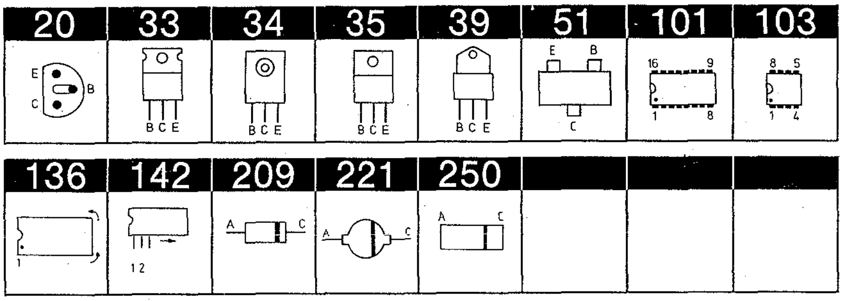
PRESENT IN SETS:
PRESENT SUR LES APPAREILS:
ANWESEND IN GERäTEN:
PRESENTE SUI MODELLI:
PRESENTE SOBRE MODELLOS:

1) SPAIN
2) 1 PAGE
3) EASTERN

CHASSIS GR2.2

CL16532100/018.JREF
270192

1800	N18
1820	G 9
1870	D 2
2801	O12
2802	M18
2803	N18
2804	N18
2805	M17
2806	O15
2807	N11
2808	L17
2810	I15
2820	G 9
2821	G 9
2823	I 5
2825	M 3
2826	M 3
2830	B15
2831	C15
2832	C15
2833	B10
2834	B11
2836	C13
2838	B12
2850	E19
2860	J17
2861	I19
2862	J20
2863	E20
2870	F 4
2871	E 4
2872	N10
3802	O15
3803	N13
3804	I11
3805	J10
3806	K17
3809	H15
3810	I14
3811	J14
3812	J13
3813	I12
3814	J12
3815	I12
3816	J12
3817	J11
3818	I11
3819	J11
3820	F 4
3821	F 4
3822	G 5
3823	F 9
3824	H 9
3825	H 9
3826	M 2
3827	M 2
3830	B15
3831	B15
3832	C14
3833	A13
3834	C13
3835	D14
3836	A12
3837	B11
3838	B12
3839	C15
3840	B 9
3841	B10
3842	C14
3843	D14
3850	H18
3851	H18
3852	H19
3853	G17
3854	G18
3855	G19
3856	F17
3857	F18
3858	F19
3860	E19
3861	D19
3862	H17
3863	I17
3864	H18
3865	I19
3866	J17
3867	J18
3868	J19
3869	K18
3870	D 4
3871	D 6
3872	D 3
3873	F 3
3874	D 5
4801	M 8
4802	M 8
4820	G 6
4821	I 9
4822	K 7
4824	G 5
4825	F 5
4850	F18
4851	F18
4860	I19
4861	I18
4862	J18
5800	N19
5801	M11
5834	C13
5870	D 2
6800	L18
6840	D13
6850	H19
6851	G19
6852	F19
6860	E19
6870	G 3
6871	E 5
7800	K14
7810	F12
7820	E 6
7821	F 5
7822	F 5
7831	B15
7833	B12
7850	G18
7851	G18
7852	E18
7860	I17
7861	I18
7862	J18
7863	J19
7870	D 3
7871	F 3
7872	D 5



Resistors not referred to are standard, see page 3-11
All IC's are protected against static electricity
* Specially selected or adapted sample.

PCB01,
8053359, System Pal B/G
8053362, System Pal I
8053364, System Pal/Secam
B/G/L/I
Main Panel

With all PCB's and wire bundles except PCB2, 3, 4 and 5

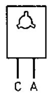
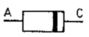
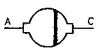
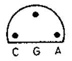
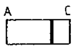
7240	8342055	**142**	TDA1521	7470	8341131	**136**	TDA2579A
	2819279		Spring Clip	7600	8342054	**101**	TDA8385
7305	8341531	**101**	TDA4510	7614	8342053	**103**	Optocoupler
7306	8341726	**136**	TDA4650				CNR50
7307	8341728	**101**	TDA4661	7708*	8342052	**136**	TMP47C1637N
7308	8341933	**101**	TDA4565	● 7710	8342051	**103**	ST24C02AB1
7309	8341708	**136**	TDA4680				
7311-	8340340	**101**	4053				
7312							

7003	8320752	**51**	BC817-40	7503	8321022	**34**	BD234 45V
7243	8320616	**51**	BC858B		2819279		Spring Clip
7244	8320778	**51**	BC858C	7504	8320615	**51**	BC848B
7245-	8320619	**51**	BC848C	7505	8320616	**51**	BC858B
7247				7540	8320595	**20**	BC337-40
7248-	8320615	**51**	BC848B	7545	8320038	**39**	BU508 700V
7249					2819279		Spring Clip
7301	8320615	**51**	BC848B	7591	8320616	**51**	BC858B
7302	8320811	**51**	BC858	7625	8320850	**35**	BUT12F 850V
7303	8320615	**51**	BC848B		2819280		Spring Clip
7310	8320615	**51**	BC848B	7661	8320775	**33**	BD943
7341	8320755	**51**	BC848	7663	8320728	**51**	BC858CR
7370-	8320615	**51**	BC848B	7671-	8320615	**51**	BC848B
7374				7672			
7455	8320616	**51**	BC858B	7703-	8320615	**51**	BC848B
7471	8320615	**51**	BC848B	7707			
7472	8320619	**51**	BC848C	7850	8320615	**51**	BC848B
7500	8320595	**20**	BC337-40	7885-	8320615	**51**	BC848B
7502	8320673	**35**	2SD1266A	7886			
	2819279		Spring Clip				

6245	8300058	**209**	1N4148	6367	8300562	**250**	BZV55 C5V6
6246-	8300607	**250**	LLZ-C 3.3V				2% 0.5W
			5% 0.4W	6450	8300058	**209**	1N4148
6247				6464	8300605	**250**	LLZ-C 10V 5%
6248-	8300482	**250**	LL4148 75V	6465	8300723	**209**	BZX79-F 8.2V
6249							2% 0.5W
6300	8300482	**250**	LL4148 75V	6466-	8300482	**250**	LL4148 75V
6302	8300723	**209**	BZX79-C 8.2V	6467			
			2% 0.5W	6503	8300863	**209**	BYD33G 400V
6303	8300173	**209**	BZX79-C 8.2V	6504	8300482	**250**	LL4148 75V
			5% 0.4W	6546	8300304	**221**	BY228 1500V
6310	8300563	**205**	LLZ-C 5.1V	6547	8300862	**221**	BYW95C 600V
			2%	6548	8300058	**209**	1N4148
6315	8300482	**250**	LL4148 75V	6551	8300863	**209**	BYD33G 400V
6316	8300058	**209**	1N4148	6560	8300482	**250**	LL4148 75V
6317	8300058	**209**	1N4148	6561	8300861	**209**	BZX79-C 68V
6318	8300482	**250**	LL4148 75V				5% 0.4W
6319	8300045	**209**	BZX79-C 27V	6563	8300860	**209**	BYD74C 150V
			5% 0.4W	6570	8300863	**209**	BYD33G 400V
6320	8300846	**250**	BAV103	6571	8300863	**209**	BYD33G 400V

● Replacing the E^2PROM IC7710

If the E^2PROM IC7710 has to be replaced during repair, the microcomputer will load the E^2PROM with a number of default values for the cut off and white balance. However all these values should be checked and adjusted, see section 5. All options should also be set (option menu in service mode) see page 1-5.

40	209	221	228	250			
							

Resistors not referred to are standard, see page 3-11
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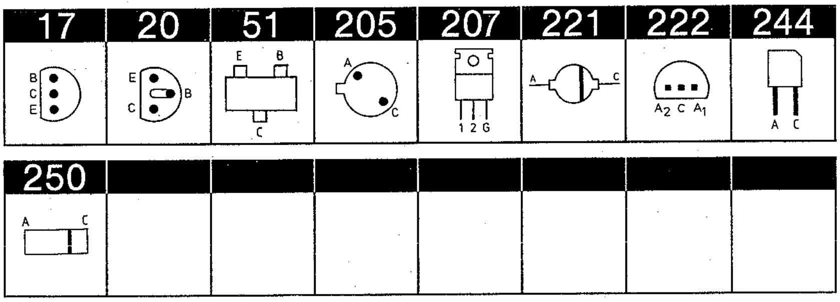
* Specially selected or adapted sample.

6580	8300864	**40**	BYV29F
	3358307		Heat sink
6585	8300863	**209**	BYD33G 400V
6590	8300859	**250**	LLZ-C43V
6591	8300058	**209**	1N4148
6592	8300210	**209**	BZX79-C 30V 5% 0.4W
6610	8300917	**250**	BZV87-1V4
6611	8300858	**209**	BZX85 16V
6612	8300058	**209**	1N4148
6617	8300857	**209**	BZV85-C5.1V
6621	8300863	**209**	BYD33G 400V
6622	8300058	**209**	1N4148
6624-6625	8300601	**221**	1N5061
6630	8300183	**40**	BY229 350V
	3358307		Heat sink
6640-6641	8300860	**209**	BYD74C 150V
6646	8300863	**209**	BYD33G 400V
6648	8300029	**209**	BZX79-F 12V 5% 0.4W
6649	8300058	**209**	1N4148
6660	8300058	**209**	1N4148
6661	8300863	**209**	BYD33G 400V
6662	8300774	**250**	LLZ-F 5.1V 5% 0.5W
6663	8300053	**209**	BZX79-F 15V 5% 0.4W
6664	8300310	**209**	BZX79-F 10V 5% 0.4W
6665	8300677	**250**	LLZ-C 4.7V 5% 0.5W
6666	8300856	**250**	LLZ-C 36V 5% 1/2W
6669	8300482	**250**	LL4148 75V
6670	8300854	**228**	0102AA THYRISTOR
6675	8300860	**209**	BYD74C 150V
6705	8300774	**250**	LLZ-F 5.1V 5% 0.5W
6708	8300853	**250**	LLZ-F2V4 5% 0.5W
6709	8300855	**209**	BZX79-B33
6850	8300031	**250**	LLZ-C18V

3001	5021440	39Ω 5% 1/3W
3240-3241	5021441	8.2Ω 5% 1/3W
3261-3262	5021404	75Ω 5% 1/8W
3312	5370346	470Ω 0.1W
3336-3337	5021437	18Ω 5% 1/3W
3457	5370381	10kΩ 30% 0.1W
3461	5370382	47kΩ 30% 0.1W
3501	5021404	75Ω 5% 1/8W
3503	5021439	1.2Ω 5% 1/3W
3504	5370341	100Ω 20% 0.1W
3516	5370403	22kΩ 30% 0.1W
3539	5012183	680kΩ 5% 1/4W
3545	5021433	120Ω 5% 5W
3553	5021419	560Ω 5% 1/3W
3560	5021420	16kΩ 5% 1/6W
3570	5021421	6.8Ω 5% 1/3W
3585	5021402	180Ω 5% 1/3W
3588	5021419	560Ω 5% 1/3W
3603	5021423	9.1mΩ 5% 1/2W
3605-3606	5021424	1kΩ 5% 1/3W
3610	5021043	8.2Ω 5% 1/3W
3620	5021425	120Ω 5% 3W
3621	5021426	27Ω 5% 3W
3622	5021427	47Ω 5% 3W
3624	5021428	330kΩ 5% 1W
3625	5021429	560kΩ 2%
3626	5021430	180Ω 5% 5W
3631	5021431	220kΩ 1% 1/2W
3635	5370347	1kΩ 20% 0.1W
3647	5021432	36.0kΩ 1%
3649	5011519	33Ω 5% 1/8W
3658	5021421	6.8Ω 5% 1/3W
3732	5021415	10kΩ 5% 2W
3849	5011889	300Ω 5% 1/16W
3850	5012179	62Ω 5% 1/8W
3851-3854	5021404	75Ω 5% 1/8W
3855	5012180	75Ω 5% 1/8W
3860	5021416	1Ω 5% 1/2W
3867-3868	5021404	75Ω 5% 1/8W
3869	5011013	100Ω 5% 1/2W
3871	5011013	100Ω 5% 1/2W
3881-3882	5011018	270Ω 5% 1/2W
3888	5011041	5.6kΩ 5% 1/2W

2001	4201116	330µF 20% 25V
2002	4000290	22nF 10% 50V
2003	4010166	100nF -20+80% 50V
2008	4000241	100pF 5% 50V
2010	4200792	10µF 20% 50V
2231	4200403	100µF -20+80% 25V
2232-2234	4010177	22nF -20+80% 50V
2236	4010173	4.7nF 10% 50V
2237	4010166	100nF -20+80% 50V
2238	4010173	4.7nF 10% 50V
2239	4010166	100nF -20+80% 50V
2240	4201212	1000µF 20% 25V
2241	4010166	100nF -20+80% 50V
2242	4201212	1000µF 20% 25V
2243	4010177	22nF -20+80% 50V
2245	4010177	22nF -20+80% 50V
2246	4200824	22µF 20% 50V
2248	4201116	330F 20% 25V
2249	4010177	22nF -20+80% 50V
2250-2251	4130265	10nF 10% 63V
2252	4130234	470nF 10% 63V
2254-2255	4130234	470nF 10% 63V
2256-2257	4000283	270pF 5% 50V
2262-2263	4000283	270pF 5% 50V

2264-2265	4130234	470nF 10% 63V
2266	4200544	22μF 20% 16V
2300	4000277	22pF 5% 50V
2301	4000344	560pF 5% 50V
2303	4000283	270pF 5% 50V
2304	4000344	560pF 5% 50V (PAL)
2304	4000431	2.2nF 2% 50V (PAL/SECAM)
2305	4000239	33pF 5% 50V
2306-2307	4000233	220pF 5% 50V
2308-2309	4010157	10nF 10% 50V
2310	4010157	10nF 10% 50V
2311	4010220	100nF 10% 50V
2312	4010157	10nF 10% 50V
2313	4340002	2-22pF
2314	4130217	330nF 5% 63V
2315	4000274	12pF 5% 50V
2316	4000278	27pF 5% 50V
2317	4000474	82pF 2% 50V
2318	4000475	100pF 5% 50V
2319	4000278	27pF 5% 50V
2320	4000234	47pF 5% 50V
2321-2322	4000290	22nF 10% 50V
2323	4010209	47nF 10% 50V
2325	4010209	47nF 10% 50V
2326	4010220	100nF 10% 50V
2328-2329	4130226	220nF 10% 63V
2330-2331	4000241	100pF 5% 50V
2332	4000284	330pF 5% 50V
2333	4130226	220nF 10% 63V
2334-2335	4000233	220pF 5% 50V
2336-2338	4000290	22nF 10% 50V
2339	4010220	100nF 10% 50V
2340-2341	4000290	22nF 10% 50V
2342-2344	4010220	100nF 10% 50V
2345	4000290	22nF 10% 50V
2346	4000241	100pF 5% 50V
2347	4000276	18pF 5% 50V
2349	4010132	1nF 10% 50V
2350-2351	4000290	22nF 10% 50V
2352	4010132	1nF 10% 50V
2353	4010220	100nF 10% 50V
2354	4200426	1μF 20% 50V
2355	4201116	330μF 20% 25V
2356-2358	4000290	22nF 10% 50V
2359	4000241	100pF 5% 50V
2360-2362	4010220	100nF 10% 50V
2363	4000279	39pF 5% 50V
2365	4130217	330nF 5% 63V
2366	4200625	3.3μF 20% 50V
2367	4201238	6.8μF 20% 50V
2368	4000274	12pF 5% 50V
2370	4130226	220nF 10% 63V
2374	4000234	47pF 5% 50V
2375-2376	4000241	100pF 5% 50V
2378	4010220	100nF 10% 50V
2379	4000290	10nF 10% 50V
2380-2381	4000242	120pF 5% 50V
2384	4000234	47pF 5% 50V
2385	4000241	100pF 5% 50V
2386	4010196	1.8nF 5% 50V
2450	4201224	100μF 20% 25V
2451	4010220	100nF 10% 50V
2455	4010172	3.3nF 10% 50V
2456	4201224	100μF 20% 25V
2457	4010220	100nF 10% 50V
2458	4130534	2.7 1% 250V
2459	4010220	100nF 10% 50V
2460	4010157	10nF 10% 50V
2461	4010132	1nF 10% 50V
2462	4000290	22nF 10% 50V
2464	4010220	100nF 10% 50V
2465	4201116	330μF 20% 25V
2466	4201173	10μF 20% 50V
2467	4010220	100nF 10% 50V
2468	4201174	2.2μF 20% 50V
2469	4200824	22μF 20% 50V
2470	4000234	47pF 5% 50V
2471	4130217	330nF 5% 63V
2473	4130277	330nF 5% 63V
2475	4010220	100nF 10% 50V
2500	4000233	220pF 5% 50V
2501	4010196	1.8nF 5% 50V
2502	4201225	22μF 20% 50V
2505	4010209	47nF 10% 63V
2506	4201196	1000μF 20% 50V
2507	4000290	22nF 10% 50V
2509	4201226	2.2μF 20% 50V
2538	4130535	4.7nF 10% 400V
2539	4201227	330μF 20% 16V
2545	4130536	1.5nF 10% 2kV
2546	4130537	11nF 5% 1600V
2547	4130538	22nF 10% 400V
2549	4130539	470nF 10% 400V
2550	4130540	390nF 5% 250V
2551	4201228	1μF 20% 160V
2559	4201224	100F 20% 25V
2560	4130541	33nF 10% 250V
2570	4201229	22μF 20% 160V
2574	4130542	2.2nF 10% 50V
2580	4201230	1000μF 20% 25V
2585	4201231	68μF 20% 25V
2588	4010170	2.2nF 10% 50V
2590	4130312	680nF 10% 63V
2600	4130543	470nF 10% 250V
2605	4201214	220μF 20% 385V
2611	4201211	68μF 20% 25V
2617	4130070	1μF 10% 50V
2620	4130264	68nF 10% 63V
2625	4130532	1nF 10% 1kV
2626	4130533	470pF 10% 1kV
2629	4010173	4.7nF 10% 50V
2630-2631	4201213	100μF 10% 160V
2632	4130532	1nF 10% 1kV
2636	4010170	2.2nF 10% 50V
2640-2641	4201230	1000μF 20% 25V
2646	4201287	15μF 10% 25V
2649-2650	4010220	100nF 10% 50V
2652-2653	4010105	1nF 10% 50V
2658	4010208	82nF 10% 50V
2660	4201230	1000μF 20% 25V
2661	4200516	47μF 20% 16V
2662	4000283	270pF 5% 50V
2663	4000281	82pF 5% 50V
2664	4201226	2.2μF 20% 50V
2670	4000242	120pF 5% 50V
2671	4130226	220nF 10% 63V
2675	4201230	1000μF 20% 25V
2676	4010302	1nF 10% 100V
2704	4010209	47nF 10% 50V
2705	4000242	120pF 5% 50V
2706	4201211	68μF 20% 25V
2707	4010157	10nF 10% 50V
2708	4000242	120pF 5% 50V



Resistors not referred to are standard, see page 3-11
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2709-	4000331	6.8pF 50V	2719	4130224	100nF 10% 63V
2710			2721	4010157	10nF 10% 50V
2711-	4000278	27pF 5% 50V	2781	4010220	100nF 10% 50V
2712			2850	4200516	47uF 20% 16V
2713	4201082	100µF -20+50% 40V	2851	4000242	120pF 5% 50V
2714-	4000242	120pF 5% 50V	2852	4010220	100nF 10% 50V
2715			2853	4010173	4.7nF 10% 50V
2716	4010220	100nF 10% 50V	2854	4010220	100nF 10% 50V
2718	4010220	100nF 10% 50V	2875	4130306	100nF 10% 63V

5001	8020607	Coil 47µH 5%	5607	8020958	Coil 1µH 20%
5240	8020606	Coil 27µq 5%			Degauss
5242	8020606	Coil 27µH 5%	5619	8020649	Coil 3.9µH 5%
5301	8020961	Coil 7.95µH	5630	8020600	Coil 1µH 10%
5303	8020607	Coil 47µH 5%	5631-	8020606	Coil 27µH 5%
5304	8021029	Coil 7.6µH	5632		
5554	8024055	Coil Linearity	5661	8020672	Coil 33µH
5582	8020554	Coil 15µH	5701	8020957	Coil 56µH
5588	8020960	Coil 33µH 10%	5703	8020672	Coil 33µH
5605-	8020959	Coil 100µH 10%			
5606					

5534	8014128	Transformer E/W	5549	8014125	Transformer Brige
5541	8014127	Transformer driver	5625	8014124	Transformer
5545	8014126	Transformer			switch-Mode
		Line output			

M0010	7221059	Plug 2/3	M0022	7221043	Plug 3/3
M0011	7221057	Plug 2/3	M0025	7220424	Plug 2/2
M0012	7221045	Plug 5/5	M0026	7221044	Plug 4/4
M0013	7221078	Plug 4/4	M0027	7221045	Plug 5/5
M0014	7221079	Plug 7/7	M0028	7221070	Plug 3/3
M0015	7221046	Plug 6/6	M0029	7221064	Plug 9/9
M0016	7221080	Plug 3/3	M0030	7221080	Plug 3/3
M0017	7221091	Plug 6/6	M0031	7221092	Plug 3/3
M0018	7221081	Plug 8/8	M0032	7221093	Plug 5/5
M0020	7221092	Plug 3/3			

0035	3169026	Socket panel S-VHS	0049	7210950	Socket 21pol AV
0047	3169025	Socket panel	0170	3304147	Shield for µC 7708
		Sound Out			

1000	8050143	Tuner system I
	8050144	Tuner system B/G & B/G/L/I

1240	6600132	Fuse 1.6A 250V	1580	6600065	Fuse 1.6A 250V
1242	6600132	Fuse 1.6A 250V	1600	6600131	Fuse 2A 250V
1534	6600130	Fuse 315mA 250V		7200127	Holder for F1600
1559	6600072	Fuse 1A 250V	1601	6600067	Fuse T2.5A 250V

1300	8090005	Crystal 8.8672 MHz	1702	8090009	Crystal 6.000MHz

PCB02, 8008124
IR Receiver

TR1	8320636	**51**	BC849B	TR5	8320740	**17**	BF840
TR2	8320740	**17**	BF840	TR6-	8320615	**51**	BC848B
TR3	8320615	**51**	BC848B	TR7			
TR4	8320616	**51**	BC858B				

D1	8300482	**250**	LL4148 75V	D4-	8300482	**250**	LL4148 75V
D2-	8330145	**244**	IR detector	D5			
			455KHz	D7	8330236	**222**	Led red
D3				D8	8300482	**250**	LL4148 75V

C1-	4000286	470pF 5% 50V	C10	4000286	470pF 5% 50V
C2			C11	4000287	220nF -20+80% 25V
C3	4000234	47pF 5% 50V	C12	4010170	2.2nF 10% 50V
C4	4000241	100pF 5% 50V	C13-	4000287	220nF -20+80% 25V
C6	4000286	470pF 5% 50V	C15		
C7	4000234	47pF 5% 50V	C16	4010175	33nF 10% 50V
C9	4010170	2.2nF 10% 50V	C17	4000289	15nF 10% 50V
L1	8020768	Coil 455KHz			
P1	7221073	Plug 6 pol			
BP1	8030056	455KHz			

PCB03, 8008009
A/V Link Interface

TR1-	8320615	**51**	BC848B			
TR3						
D1	8300482	**250**	LL4148 75V			
P9	7210885		Socket 3 pol	P10	7221043	Plug 3 pol

PCB04, 8008125
Headphone

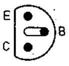
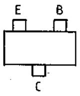
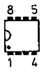
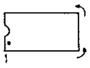
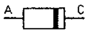
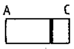
C1-	4010132	1nF 10% 50V			
C2					
P3	7221045	Plug 5 pol	P5	7220424	Plug 2 pol
P4	7220425	Plug 3 pol	P6	7210802	Socket Headphone
S1-	7400318	Switch 1 pol			
S2					

PCB05, 8008010
Degauss

TR1	8320552	**20**	BC327			
D1	8300482	**205**	LL4148 75V			
C1	4130098		100nF 20% 400V	C2-	4200688	47F 20% 50V
				C3		
P7	7220424		Plug 2 pol	P9	7221059	Plug 2/3
P8	7221057		Plug 2/3	P10	7220406	Plug 2 pol
L1	8020325		Coil 10uH			
T1	8014119		Trafo			
ST1	8300320	**207**	Diode TO509MH 600V			

PCB06, 8008114
Mains Filter & Rectifier

6602-	8300601	**221**	1N5061			
6605						
3601	5230029		PTC			
2602	4010281		2.2nF 10% 1kV	2604	4010281	2.2nF 10% 1kV
5600	8022310		Coil mains filter			
25	7221059		Plug 2/3	33	7221070	Plug 3/3
32	7221057		Plug 2/3			

20	51	103	136	209	250		
							

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PCB07, 8008120, System BG
8008121, System I
IF & Sound A2 &
NICAM

7000	8342060	**136**	TDA2549	7170	8340930	**103**	LM833N
7100	8342061	**136**	TDA3857	7180	8340930	**103**	LM833N
7120	8342062	**136**	TDA8732	7200	8341291	**136**	TDA8415
7150	8342063	**136**	SAA7280P	7213	8341491	**136**	TDA8425
7168	8341194	**103**	TDA1543				

7035	8320512	**20**	BC338-25	7160-	8320615	**51**	BC848B
7073	8320616	**51**	BC858B	7161			
7078	8320778	**51**	BC858C	7190	8320616	**51**	BC858B
7106	8320615	**51**	BC848B	7191	8320512	**20**	BC338-25
7108	8320616	**51**	BC858B	7217	8320615	**51**	BC848B
7133	8320615	**51**	BC848B				

6070-	8300482	**250**	LL4148 75V	6140	8300482	**250**	LL4148 75V
6072				6190	8300482	**250**	LL4148 75V
6075	8300482	**250**	LL4148 75V	6191	8300562	**250**	LLZ-C
6127	8300402	**209**	BB405B				5.6V 2%
6134	8300918	**209**	OF4271	6225	8300605	**250**	LLZ-C
							10V 5%

3016	5370383	100Ωk 30% 0.1W	3188	5021447	10Ω 5% 1/3W
3109	5021412	120Ω 5% 2W	3200	5370381	10kΩ 30% 0.1W
3150	5021442	2.7Ω 5% 1/3W	R3205	5021413	22Ω 5% 1/3W
3168	5021442	2.7Ω 5% 1/3W			

2011	4200516	47µF 20% 16V	2130	4000229	150pF 5% 50V
2012	4201172	4.7µF 20% 50V	2131	4000242	120pF 5% 50V
2013-	4000290	22nF 10% 50V	2132	4010176	10nF -20+80% 50V
2014			2133	4130225	150nF 10% 63V
2015	4130513	680nF 5% 63V	2134	4010132	1nF 10% 50V
2016	4010173	4.7nF 10% 50V	2135	4010176	10nF -20+80% 50V
2017	4010220	100nF 10% 50V	2136	4000229	150pF 5% 50V
2042	4000274	12pF 5% 50V	2137	4010166	100nF -20+80% 50V
2044	4000290	22nF 10% 50V	2138	4010176	10nF -20+80% 50V
2047	4010220	100nF 10% 50V	2140	4130226	220nF 10% 63V
2049	4010220	100nF 10% 50V	2141	4010173	4.7nF 10% 50V
2050	4201116	330uF 20% 25V	2143	4010132	1nF 10% 50V
2071	4000279	39pF 5% 50V	2150	4010177	22nF -20+80% 50V
2072	4201174	2.2µF 20% 50V	2151	4200516	47µF 20% 16V
2073	4010175	33nF 10% 50V	2160-	4000241	100pF 5% 50V
2075	4000290	22nF 10% 50V	2161		
2076	4201170	0.47µF 20% 50V	2168	4010166	100nF -20+80% 50V
2077	4010259	5.6nF 10% 50V	2169	4200516	47µF 20% 16V
2100	4201171	1µF 20% 50V	2170	4000289	15nF 10% 50V
2101	4000345	1nF 5% 50V			system B/G
2102	4000345	1nF 5% 50V	2170	4010259	5.6nF 10% 50V
		system B/G			system I
2102	4000448	820pF 5% system I	2171	4010175	33nF 10% 50V
2104	4010173	4.7nF 10% 50V			system B/G
2106-	4201174	2.2µF 20% 50V	2171	4000449	12nF 10% 50V
2107					system I
2108	4010176	10nF -20+80% 50V	2173	4000344	560pF 5% 50V
2109	4200509	33µF 20% 25V	2174	4010195	2.7nF 5% 50V
2110	4010166	100nF -20+80% 50V	2175	4000431	2.2nF 2% 50V
2116	4010132	1nF 10% 50V	2176	4130234	470nF 10% 63V
2119	4200600	470µF 20% 16V	2180	4000289	15nF 10% 50V
2122	4010176	10nF -20+80% 50V			system B/G
2123-	4000282	180pF 5% 50V	2180	4010259	5.6nF 10% 50V
2124					system I
2125	4010174	6.8nF 10% 50V	2181	4010175	33nF 10% 50V
2126-	4010132	1nF 10% 50V			system B/G
2127			2181	4000449	12nF 10% 50V
2128	4000229	150pF 5% 50V			system I
2129	4010176	10nF -20+80% 50V	2183	4000344	560pF 5% 50V

2184	4010195	2.7nF 5% 50V
2185	4000431	2.2nF 2% 50V
2186	4130234	470nF 10% 63V
2177	4010177	22nF -20+80% 50V
2188	4200516	47μF 20% 16V
2189	4010177	22nF -20+80% 50V
2190	4010166	100nF -20+80% 50V
2191	4201207	100μF 20% 16V
2193	4201116	330μF 20% 25V
2194	4010166	100nF -20+80% 50V
2198	4130234	470nF 10% 63V
2200-2201	4130234	470nF 10% 63V
2202	4000242	120pF 5% 50V
2203-2204	4200509	33μF 20% 25V
2205	4010166	100nF -20+80% 50V
2207	4130234	470nF 10% 63V
2209	4130234	470nF 10% 63V
2210	4201172	4.7μF 20% 50V
2211	4130226	220nF 10% 63V
2213	4201215	150uF 20% 16V
2214	4010166	100nF -20+80% 50V
2215	4200516	47μF 20% 16V
2216	4010175	33nF 10% 50V
2217	4201172	4.7μF 20% 63V
2218	4201207	100μF 20% 16V
2219	4201172	4.7μF 20% 63V
2220	4010259	5.6nF 10% 50V
2223	4010259	5.6nF 10% 50V
2224	4010175	33nF 10% 50V
2225-2226	4000289	15nF 10% 50V

5010	8020747	Coil 1mH
5035	8020953	Coil 0.34μH
5036	8020954	Coil 0.36μH
5042	8020955	Coil 8.2μH, System B/G
5042	8020771	Coil 5.6μH 5%, System I
5101	8022329	Coil 0.83μH
5102	8022329	
5103	8020956	Coil 0.83μH
5123-5124	8020747	Coil 1mH

M50 M51	7221099	Contact pin

1010	8030254	OFWG 3254 system B/G
1010	8030260	OFWJ3251 system I
1042	8030255	5.5MHz system B/G
1042	8030256	6MHz system I
1100	8030257	5.74MHz system B/G
1105	8030258	5.5MHz system B/G
	8007329	Small PCB mounted instead of 1105 in some B/G TV's
1105	8030259	6MHz system I
1116	8020951	Filter TH316BQM, System B/G
1116	8020952	Filter TH316BQM, System I

1191	6600080	Fuse 400mA 250V

1127	8090151	Crystal 11.70MHz system B/G
1127	8090152	Crystal 13.104MHz system I
1138	8090153	Crystal 17.472MHz
1200	8090019	Crystal 10MHz

PCB08, 8008111 TELETEXT

7800	8342022	**136**	SAA5246P/E
7810	8341463	**136**	6264 8Kx8
7820	8342028	**136**	PCF84C81

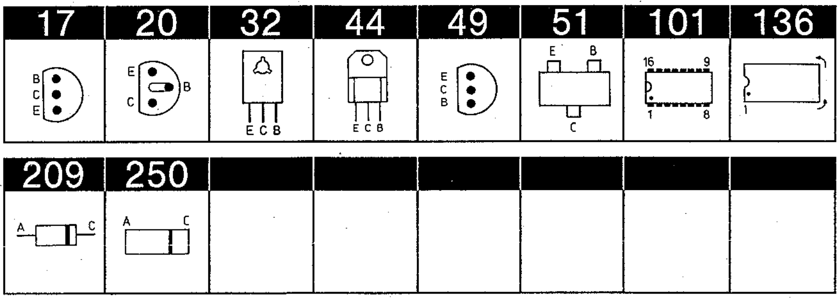
7821-7822	8320615	**51**	BC848B
7850-7852	8320747	**51**	BC848C
7860	8320615	**51**	BC848B
7861	8320816	**51**	BC846B
7862	8320747	**51**	BC848C
7863	8320615	**51**	BC848B
7870	8320295	**20**	BC337-25
7871	8320616	**51**	BC858B
7872	8320295	**20**	BC337-25

6800	8300577	**250**	LLZ-F3.9V 2%
6850-6852	8300482	**250**	LL4148 75V
6860	8300482	**250**	LL4148 75V
6870	8300774	**250**	LLZ-F5.1V 5% 0.5W
6871	8300562	**250**	LLZ-F5.6V 2% 0.5W

2800	4000219	10pF 5% 50V
2801	4000290	22nF 10% 50V
2802	4010318	100nF 10% 50V
2803	4000240	56pF 5% 50V
2804	4000275	15pF 5% 50V
2805-2808	4010220	100nF 10% 50V
2810	4010220	100nF 10% 50V
2820-2821	4000275	15pF 5% 50V
2823	4010220	100nF 10% 50V
2825-2826	4000234	47pF 5% 50V
2833	4010220	100nF 10% 50V
2850	4010220	100nF 10% 50V
2860	4000278	27pF 5% 50V
2861	4010220	100nF 10% 50V
2862	4000240	56pF 5% 50V
2863	4010220	100nF 10% 50V
2870	4200628	100μF 20% 16V
2871	4200516	47μF 20% 16V
2872	4200551	33μF 20% 16V

5800	8020551	Coil 4.7μH
5801	8020608	Coil 10μH 5%
5870	8020949	Coil 3.3μH

1820	8030252	6MHz



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006	7210964	Plug 6/6	007	7210969	Plug 8/8

1800	8090189	Crystal 27.001MHz

1870	6600130	Fuse 315mA 250V

PCB09, 8008113
Video Output (marked with no. 8211015 0429 4 in the copper foil)
□ = Marked with no. 8211 015 0429 5 in the copperfoil

7302	8320440	**44**	BF869	7364	8320546	**49**	BF422
	3152902		Holder	7365	8320623	**17**	BF423
7303	8320615	**51**	BC848B	7383	8320546	**49**	BF422
7304	8320546	**49**	BF422	7391	8320623	**17**	BF423
7305	8320623	**17**	BF423	7402	8320615	**51**	BC848B
7331	8320440	**44**	BF869	7411	8320497	**20**	BC547B
	3152902		Holder	7421	8320778	**51**	BC858C
7333	8320615	**51**	BC848B	7530	8320615	**51**	BC848B
7334	8320546	**49**	BF422	7533	8321020	**32**	2SA1359
7335	8320623	**17**	BF423	□7533	8321093	**32**	BD440
7345	8320616	**51**	BC858B		3358309		Heat sink
7361	8320440	**44**	BF869		2819279		Spring clip
	3152902		Holder	7536- 7538	8320615	**51**	BC848B
7363	8320615	**51**	BC848B				

6301	8300846	**250**	BAV103	6382	8300846	**250**	BAV103
□6301	8300865	**209**	BAV21	6411	8300847	**209**	BZX79-F3.0V
6331	8300846	**250**	BAV103	6421	8300482	**250**	LL4148 75V
6345	8300605	**250**	LLZ-C10V 5%	6518	8300482	**250**	LL4148 75V
6361	8300846	**250**	BAV103	6519	8300482	**250**	LL4148 75V
□6361	8300865	**209**	BAV21				

3311	5021399	12kΩ 5% 3W	3373	5020658	270Ω 5% 1/3W
□3311	5021400	15kΩ 5% 3W	3374	5001032	1.5kΩ 10% 1/2W
3312	5020658	270Ω 5% 1/3W	3413	5011889	300Ω 5% 1/16W
3313	5020658	270Ω 5% 1/3W	3415	5011889	300Ω 5% 1/16W
3314	5001032	1.5kΩ 10% 1/2W	3431	5021402	180Ω 5% 1/3W
3341	5021400	15kΩ 5% 3W	3432	5021440	39Ω 5% 1/3W
3342	5020658	270Ω 5% 1/3W	3433	5021446	1Ω 5% 1/3W
3343	5020658	270Ω 5% 1/3W	3434- 3435	5001032	1.5kΩ 10% 1/2W
3344	5001032	1.5kΩ 10% 1/2W			
3371	5021401	10kΩ 5% 3W	3521	5370324	4.7kΩ 20% 0.1W
□3371	5021400	15kΩ 5% 3W	3525	5370327	22kΩ 20% 0.1W
3372	5020658	270Ω 5% 1/3W	3837	5021442	2.7Ω 5% 1/2W

2301	4000239	33pF 5% 50V	2434	4010104	220pF 10% 500V
2331	4000278	27pF 5% 50V	2520	4201205	68μF 20% 25V
2344	4201172	4.7μF 20% 50V	2521	4010283	68nF 10% 50V
2361	4000278	27pF 5% 50V	2522	4130227	330nF 10% 63V
2391	4003134	27pF 2% 63V	2523	4010284	56nF 10% 50V
2392	4201234	4.7μF 20% 100V	□2523	4010175	33nF 10% 50V
2411	4201227	330μF 20% 16V	2526	4010276	8.2nF 10% 50V
2421	4000277	22pF 5% 50V	□2526	4130112	10nF 10% 400V
2431	4130107	100nF 10% 250V	2531	4130381	120nF 10% 63V
2432	4201248	47μF 20% 16V	2532	4201233	1μF 20% 63V
2433	4130528	33nF 1000V	2533	4201196	1μF 20% 50V
□2433	4010336	3.3nF 10% 1000V			

5401	8020672	Coil 33H

0017	7221067	Plug 5pol	0020	7221076	Plug 7pol
0018	7221068	Plug 3pol	0021	7200126	Socket CRT
0019	7221077	Plug 4pol			

PCB10,8008112
A/V2 Interface

7802	8340340	**101**	4053
7823	8320615	**51**	BC848B
6803	8300058	**209**	1N4148

3800	5012179	62Ω 5% 1/8W	3837	5021442	2.7Ω 5% 1/3W
3801	5021404	75Ω 5% 1/8W	3838	5021404	75Ω 5% 1/8W
3813	5012180	75Ω 5% 1/8W			

2800-	4130234	470nF 10% 63V	2818	4010166	100nF -20+80% 50V
2803			2821	4200688	47μF 20% 50V
2810-	4000283	270pF 5% 50V	2823	4010220	100nF 10% 50V
2811			2831	4200551	33μF 20% 16V
2815-	4010220	100nF 10% 50V	2833-	4010220	100nF 10% 50V
2817			2834		

5800	8020552	Coil 10μH 10%
3833	8020822	Coil 3.3μH

E23	7221065	Plug 10pol	E32	7221043	Plug 3pol
E30	7221064	Plug 9pol	E48	7221066	Socket 21pol AV

PCB11, 8008220
IF & Sound A2

7000	8342060	**136**	TDA2549	7100	8342393	**136**	TDA3856/V3
	3304156		Shield bottom	7200	8341794	**136**	TDA8417
	3304157		Shield top	7220	8341491	**136**	TDA8425

7030	8320811	**051**	BC858B	7104	8320755	**051**	BC848B
7031	8320755	**051**	BC848B	7150-	8320755	**051**	BC848B
7035	8320512	**020**	BC338-25	7151			
7040	8320616	**051**	BC858B	7232	8320615	**051**	BC848B
7102	8320615	**051**	BC848B	7233	8320778	**051**	BC858C

6037-	8300916	**250**	BA682	6109	8300482	**250**	LL4148
6038				6150-	8300916	**250**	BA682
6039	8300058	**209**	1N4148	6151			
6040-	8300482	**250**	LL4148	6220	8300605	**250**	Z10V 5%
6043				6221-	8300482	**250**	LL4148
6106-	8300916	**250**	BA682	6222			
6108							

3015	5020796	100kΩ 5% 1/8W	3105	5021412	120Ω 5%
3016	5370383	100kΩ 30% 0.1W	3204	5370326	10kΩ 20% 0.1W
3048	5370456	2kΩ 30% 0.1W	3205	5021413	22Ω 5% 1/3W

2011	4201248	47μF 20% 16V	2113	4200872	10μF 20% 50V
2012	4201234	4.7μF 20% 100V	2114	4010157	10nF 10% 50V
2013	4010173	4.7nF 10% 50V	2115	4201286	33μF 20% 25V
2014	4000290	22nF 10% 50V	2117-	4201226	2.2μF 20% 50V
2015	4130312	680nF 10% 63V	2118		
2016	4010173	4.7nF 10% 50V	2119	4000290	22nF 10% 50V
2017	4010220	100nF 10% 50V	2120	4201284	2.2μF 20% 50V
2018	4130254	470nF 10% 63V	2122	4010220	100nF 10% 50V
2035	4000330	5.6pF 0.5pF 50V	2123	4200486	4.7μF 20% 50V
2036-	4010173	4.7nF 10% 50V	2124	4200517	2.2μF 20% 50V
2037			2125	4010335	910pF 2% 63V
2038	4010220	100nF 10% 50V	2126	4010173	4.7nF 10% 50V
2039	4000332	8.2pF 0.5pF 50V	2127-	4000472	820pF 2% 63V
2040-	4010173	4.7nF 10% 50V	2128		
2041			2129	4000473	220pF 2% 63V
2042	4000274	12pF 5% 50V	2130	4201215	150μF 20% 16V
2044	4000290	22nF 10% 50V	2133	4000290	22nF 10% 50V
2047	4010220	100nF 10% 50V	2160	4010173	4.7nF 10% 50V
2048	4201248	47μF 20% 16V	2202	4130254	470nF 10% 63V
2049	4010220	100nF 10% 50V	2203	4010259	5.6nF 10% 50V
2050	4201227	330μF 20% 16V	2204	4130226	220nF 10% 63V
2051	4010220	100nF 10% 50V	2206	4130234	470nF 10% 63V
2055	4000279	39pF 5% 50V	2208	4200509	33μF 20% 25V
2056	4201226	2.2μF 20% 50V	2209	4200509	33μF 20% 25V
2057	4010175	33nF 10% 50V	2210	4010220	100nF 10% 50V
2058	4000290	22nF 10% 50V	2211	4200600	470μF 20% 16V
2059	4201285	0.47μF 20% 50V	2212	4200792	10μF 20% 50V
2080	4000470	56pF 2% 50V	2213-	4000289	15nF 10% 50V
2081	4000471	180pF 5% 50V	2214		

2215	4010175	33nF 10% 50V
2216	4010259	5.6nF 10% 50V
2217	4010175	33nF 10% 50V
2218	4010259	5.6nF 10% 50V
2219	4200486	4.7µF 20% 50V
2220-2221	4201234	4.7µF 20% 50V
2222	4201207	100µF 20% 16V
2223	4010132	1nF 10% 50V

5010	8021032	0.47µH 20%
5036	8020954	Coil 0.36µH
5037	8021021	Coil 33MHz
5038	8021023	Coil 32MHz
5039	8021024	Coil 33µH 10%
5080	8021025	Coil 25µH
5103	8022329	Coil 0.83µH
5104	8020956	Coil 1.2µH
5105	8022329	Coil 0.83µH
5150	8021026	Coil 2.7µH 20%

1010	8030306	Filter 38.9MHz
1042	8030255	Filter 5.5MHz
1101	8030257	Filter 5.74MHz
1102	8030259	Filter 6MHz
1103	8030308	Filter 5.5MHz
1150	8030307	Filter 38.9MHz

1200	8090019	Crystal 10MHz

Standard Resistors:

Resistors 5% 1/2 W

	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0		5011000	5011013	5011028	5011044	5010313	5011069	5011083
1.2	5011406	5011001	5011014	5011030	5011045	5011058	5010421	
1.5	5010727	5011002	5011015	5011031	5011046	5011059	5011071	
1.8	5010857	5010787	5011016	5011033	5011047		5011072	
2.2	5011335	5010708	5010815	5011034	5011048	5011061	5011074	
2.7	5011612	5010803	5011018	5010055	5011049	5011062	5011075	
3.3	5010255	5011007	5011019	5011037		5011063	5010381	
3.9		5010782	5011021	5010700	5011051		5010392	
4.7	5010765	5011009	5011022	5010035	5010036	5011065	5011078	
5.6		5011010	5011023	5011041		5011066	5011079	
6.8	5010874	5011011	5011024	5011042	5010810	5011067	5011080	
8.2		5011012	5011026	5011043	5010038	5011068	5011081	

Resistors 5% 1/4 W

	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0	5010592	5010506	5010065	5010040	5010059	5010049	5010054	5010638
1.2		5010595	5010128	5010153	5010046	5010047	5010665	
1.5	5011348	5010468	5010057	5010247	5010053	5010063	5010093	
1.8		5010822	5010362	5010066	5010135	5010072	5010791	
2.2	5010682	5010448	5010092	5010064	5010079	5010120	5010245	
2.7	5010925	5010403	5010000	5010298	5010141	5010083	5010431	
3.3		5010253	5010044	5010076	5010075	5010117	5010848	
3.9	5011377	5010622	5010070	5010069	5010060	5010073	5010714	
4.7	5010888	5010411	5010058	5010048	5010045	5010077	5011513	
5.6	5010706	5010151	5010067	5010041	5010061	5010071	5010658	
6.8	5010904	5010039	5010144	5010052	5010062	5010074		
8.2	5010880	5010056	5010068	5010154	5010091	5010505		

Resistors 5% 1/8 W

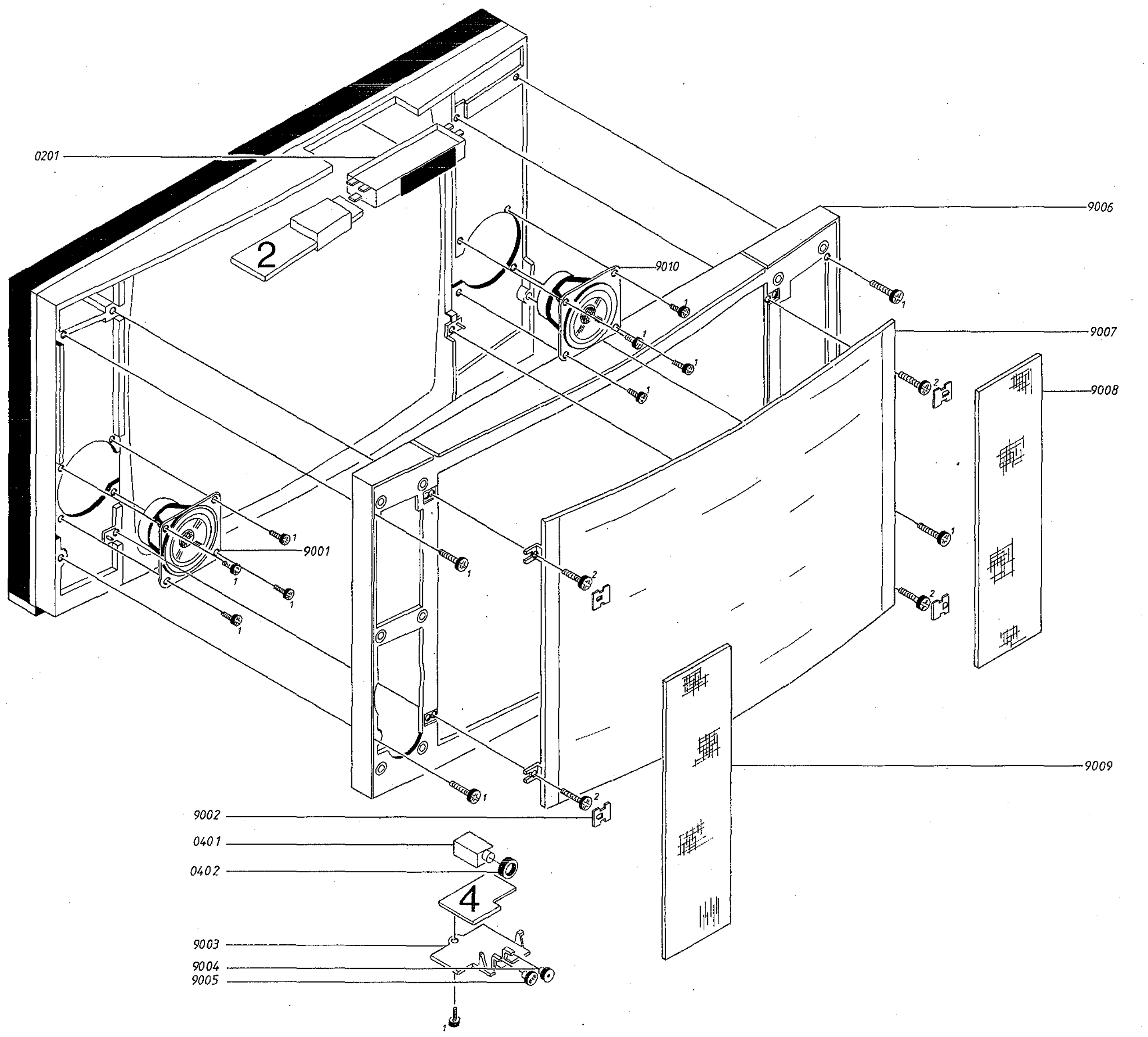
	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0		5011464	5011357	5010816	5010935	5011440	5011459	5020875
1.2		5011351	5011084	5011442	5011338	5011341	5011175	
1.5		5011463	5011443	5011178	5011364	5011398	5011460	
1.8			5011350	5011361	5011344	5011468		
2.2	5011032	5011376	5010886	5011353	5010833	5011369	5011342	
2.7		5011471	5011355	5011362	5011366	5011370	5011478	
3.3		5011347	5011337	5010827	5011346	5011371	5011462	
3.9		5011438	5011817	5011157	5011457	5011372	5020876	
4.7	5011363	5011038	5011441	5011363	5010937	5011343	5011611	
5.6		5011412	5011358	5010885	5011166	5011340		
6.8		5011356	5011336	5010839	5011367	5011458		
8.2		5011466	5011354	5011339	5011368	5011373		

Resistors SMD 2% 1/8 W
SMD 5% 1/8 W

	5%	2%	2%	2%	2%	2%	5%	5%
	x1	x10	x100	x1K	x10K	x100K	x1M	x10M
1.0	5011623	5011647	5011218	5011227	5011241	5011256	5011267	5011730
1.1	5011624	5011648	5011669	5011681	5011689	5011694	5011707	
1.2	5011625	5011649	5011219	5011682	5011490	5011257	5011708	
1.3	5011626	5011650	5011670	5011683	5011242	5011258	5011709	
1.5	5011627	5011651	5011220	5011228	5011243	5011259	5011710	
1.6	5011628	5011652	5011671	5011684	5011690	5011695	5011711	
1.8	5011629	5011653	5011672	5011229	5011244	5011260	5011712	
2.0	5011630	5011654	5011673	5011685	5011691	5011696	5011713	
2.2	5011216	5011655	5011674	5011230	5011245	5011261	5011714	
2.4	5011634	5011656	5011675	5011686	5011246	5011697	5011715	
2.7	5011635	5011657	5011497	5011231	5011247	5011262	5011716	
3.0	5011731	5011658	5011499	5011500	5011692	5011698	5011717	
3.3	5011217	5011659	5011676	5011232	5011248	5011263	5011718	
3.6	5011636	5011660	5011677	5011687	5011249	5011264	5011719	
3.9	5011637	5011661	5011221	5011233	5011491	5011699	5011720	
4.3	5011638	5011662	5011498	5011688	5011492	5011700	5011721	
4.7	5011639	5011269	5011222	5011234	5011250	5011265	5011722	
5.1	5011640	5011663	5011678	5011235	5011493	5011701	5011723	
5.6	5011641	5011664	5011223	5011236	5011251	5011702	5011724	
6.2	5011642	5011665	5011224	5011237	5011693	5011703	5011725	
6.8	5011643	5011666	5011225	5011238	5011252	5011704	5011726	
7.5	5011644	5011667	5011679	5011239	5011253	5011705	5011727	
8.2	5011645	5011270	5011226	5011240	5011254	5011266	5011728	
9.1	5011646	5011668	5011680	5011489	5011255	5011706	5011729	

(Glue dots, approx. 200, part no. 3181932).

List of Mechanical parts
Front frame LE 6000


0201
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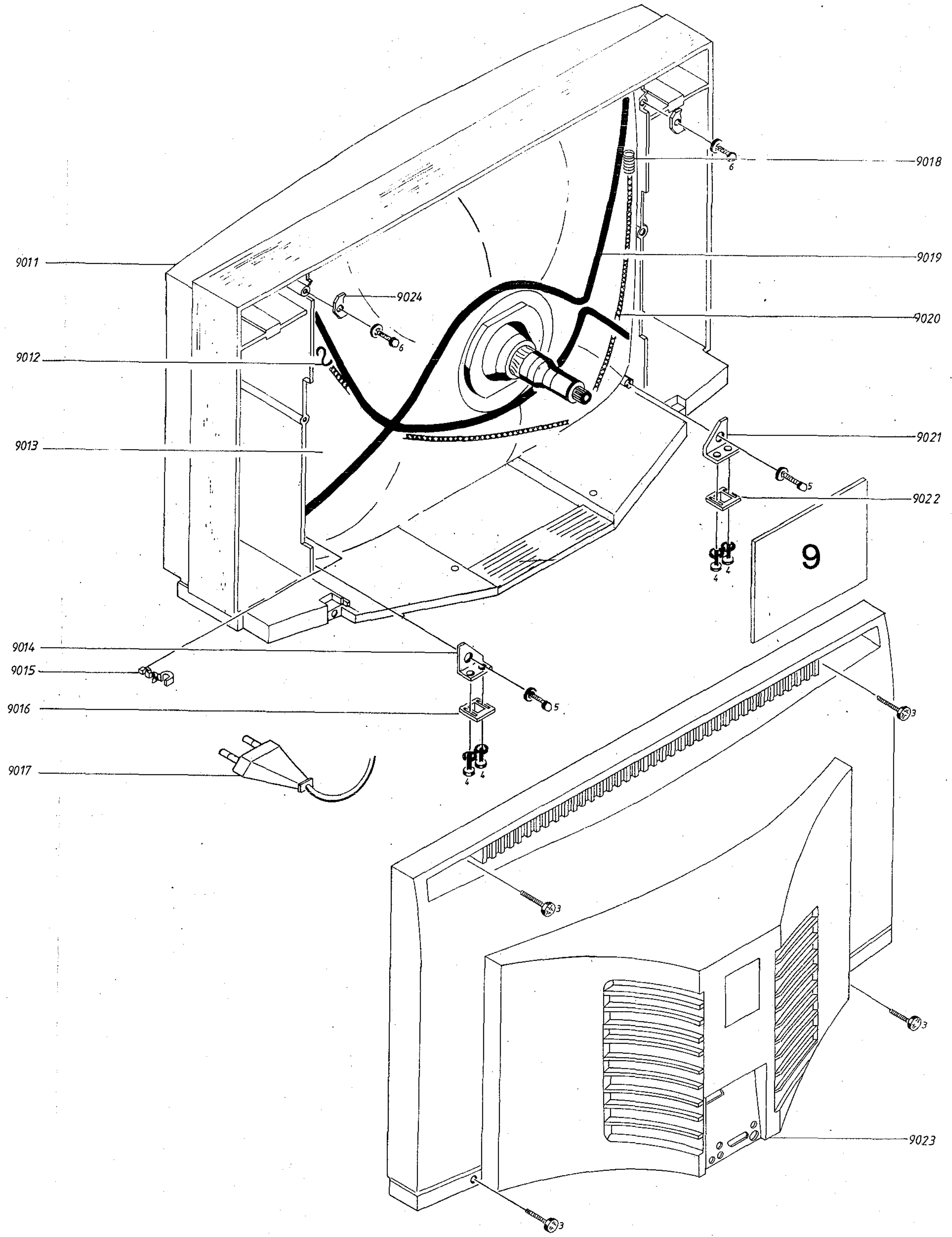
Cabinet LE 6000


9018
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Front frame

2modul	8008124	IR Receiver
0201	3131325	House for IR
	3302467	Shield, top
	3302468	Shield, bottom

4modul	8008125	Headphone
0401	7210802	Jack plug
0402	2938282	Bushing

9001	8480214	Loudspeaker	9007	3451285	Glass plate
	3947359	Damping material		3950050	Rubber string
9002	3164570	Cap	9008	3450898	Loudspeaker panel, right
9003	3131324	Cap			
9004	2776032	Button for main switch	9009	3450897	Loudpeaker panel, left
9005	2776033	Button Pstep	9010	8480214	Loudspeaker
9006	3414146	Front frame			

9modul	8008113	Video Output

Cabinet

9011	3320199	Chassis	9018	2810189	Spring
9012	2510119	Clamp	9019	8022222	Degaussing coil
9013	8200076	Picture tube "28"	9020	7510045	Ground current
9014	3152446	Holder	9021	3152432	Holder
9015	3152778	Holder	9022	2576200	Spacer
9016	2576200	Spacer	9023	3430592	Rear cover
9017	6275990	Mains lead	9024	2576170	Spacer

Survey of screws

1	2019018	Screw 4 x 16 mm	5	2044047	Screw 5 x 15 mm w/washer
2	2021013	Screw 5 x 20 mm			
3	2021012	Screw 5 x 25 mm	6	2044048	Screw 5 x 25 mm w/washer
4	2044059	Screw 5 x 20 mm			

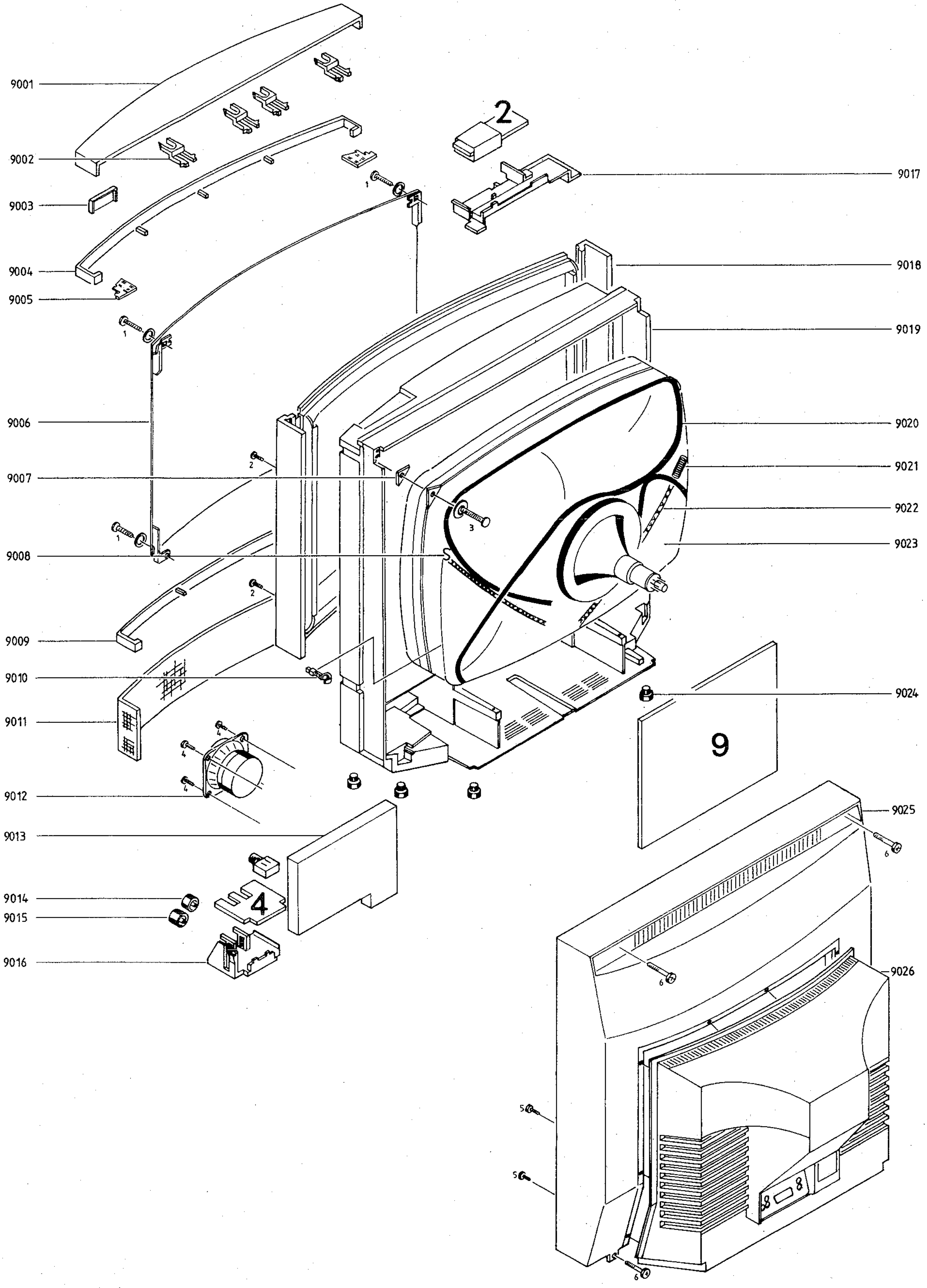
Parts not shown

3392082	Outer carton
3397568	Foam packing
3917105	Foam foil
3391936	Carton f/Beolink 1000

Survey of wire bundles

6276707	Wire bundle Consist of: IR Receiver Headphone Speaker, left Speaker, right Degauss Deflection	6276708	Wire bundle, chassis

Expl. View
ME 6000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ME 6000

02modul	8008124	IR receiver
	3302467	Shield, top
	3302468	Shield, bottom

04modul	8008125	Headphone
	7210802	Jack plug
	2938282	Bushing

09modul	8008113	Video Output

9001	3451008	Lid
9002	2391070	Hinge
9003	3322092	Window f. IR
9004	3450701	Cap
9005	3164687	Holder
9006	3451039	Contrast screen
9007	2640053	Spacer
9008	2510119	Clamp
9009	3451186	Cap
9010	3152778	Holder f. Degauss
9011	3320227	Loudspeaker panel
9012	8480214	Loudspeaker
9013	3332054	Damper
9014	2776033	Press button - STEP
9015	2776032	Press button - ●
9016	3152797	Holder
9017	3131329	Holder f. IR
9018	3320159	Front frame w. rubber string
	3950040	Rubber string
9019	3320225	Chassis w. foot
	3946083	Tightning, side
	3946084	Tightning, top/bottom
	3103287	Foot
	6275990	Mains lead
9020	8022222	Degaussing coil
9021	2810189	Tension spring
9022	7510045	Ground current
9023	8200076	Picture tube
9024	3035032	Rubber foot
9025	3414307	Back cover
9026	3430613	Back cover, small

Survey of screws and washers

1	2015141	Screw 3.5x12 w. washer
2	2013137	Screw 3x10
3	2044048	Screw 5x25 w. washer
4	2019018	Screw 4x16
5	2015132	Screw 3.5x10
6	2021012	Screw 5x25

Parts not shown

3392015	Outer carton
3397637	Foam packing
3917105	Foam foil

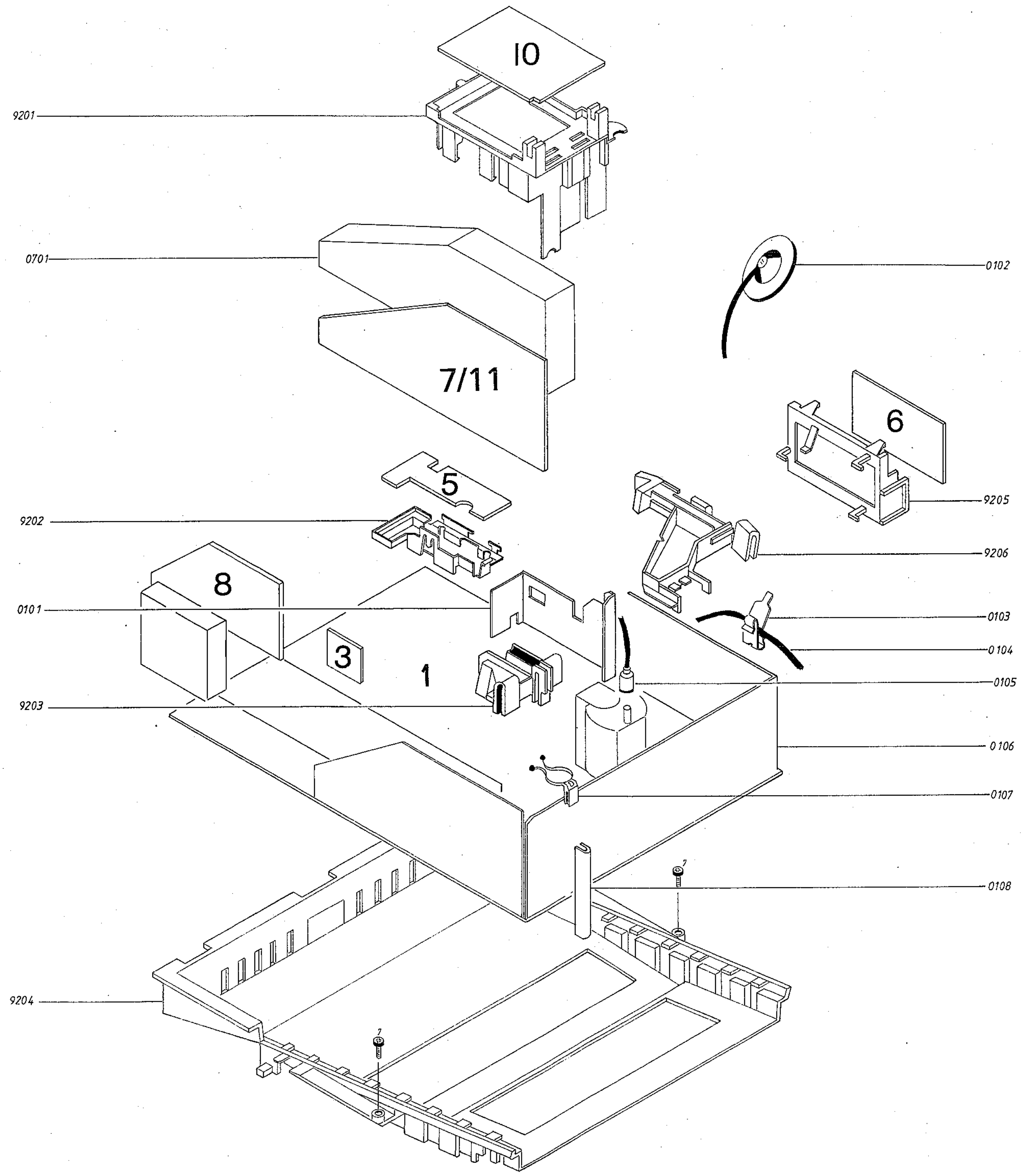
Survey of wire bundles

6276707	Wire bundle consist of: IR Receiver Headphone Speaker, left Speaker, right Degauss Deflection
6276708	Wire bundle, chassis

Owner's Manuals for ME6000 and LE 6000

3501479	Danish
3501480	Swedish
3501481	English
3501482	German
3501483	Dutch
3501484	French
3501485	Italian
3501486	Spanish

Expl. View
Chassis



Chassis

9201	3152913	Holder	9204	3152882	Holder f. chassis
9202	3152883	Holder	9205	3152903	Holder
9203	3152914	Holder	9206	3152912	Holder

01Modul	8053359	Main Panel, Pal B/G
	8053362	Main Panel, Pal I
	8053364	Main Panel, Pal/Secam B/G/L/I
0101	3358308	Heat sink
0102	6270620	EHT cable
0103	3152915	Spring
0104	6032942	Green lightning cable
0105	3951029	Rubber sleeve
0106	3358306	Heat sink
0107	3152178	Wire holder
0108	3170302	Insulation piece
03Modul	8008009	A/V Link Interface
05Modul	8008010	Degauss
06Modul	8008114	Mains Filter & Rectifier
07Modul	8008120	IF & Sound A2 & Nicam, System B/G
	8008121	IF & Sound A2 & Nicam, System I
0701	3304148	Shield f. PCB7
	3304152	Shield f. PCB11
08Modul	8008111	Teletext
10Modul	8008112	A/V2 Interface
11Modul	8008220	IF & Sound A2

Survey of Screws

7	2021013	Screw 5x20

TB 4108 – LE 6000

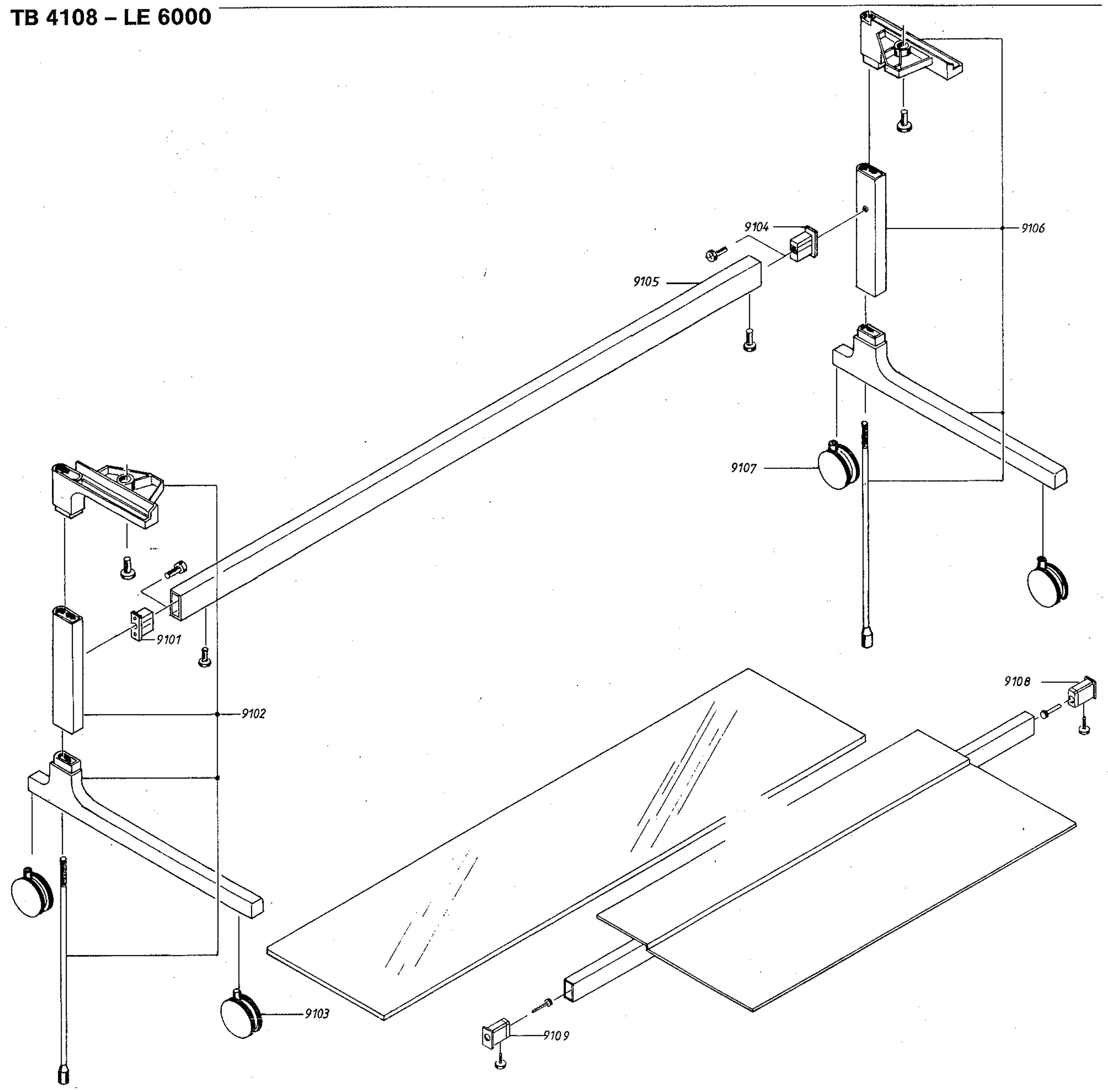
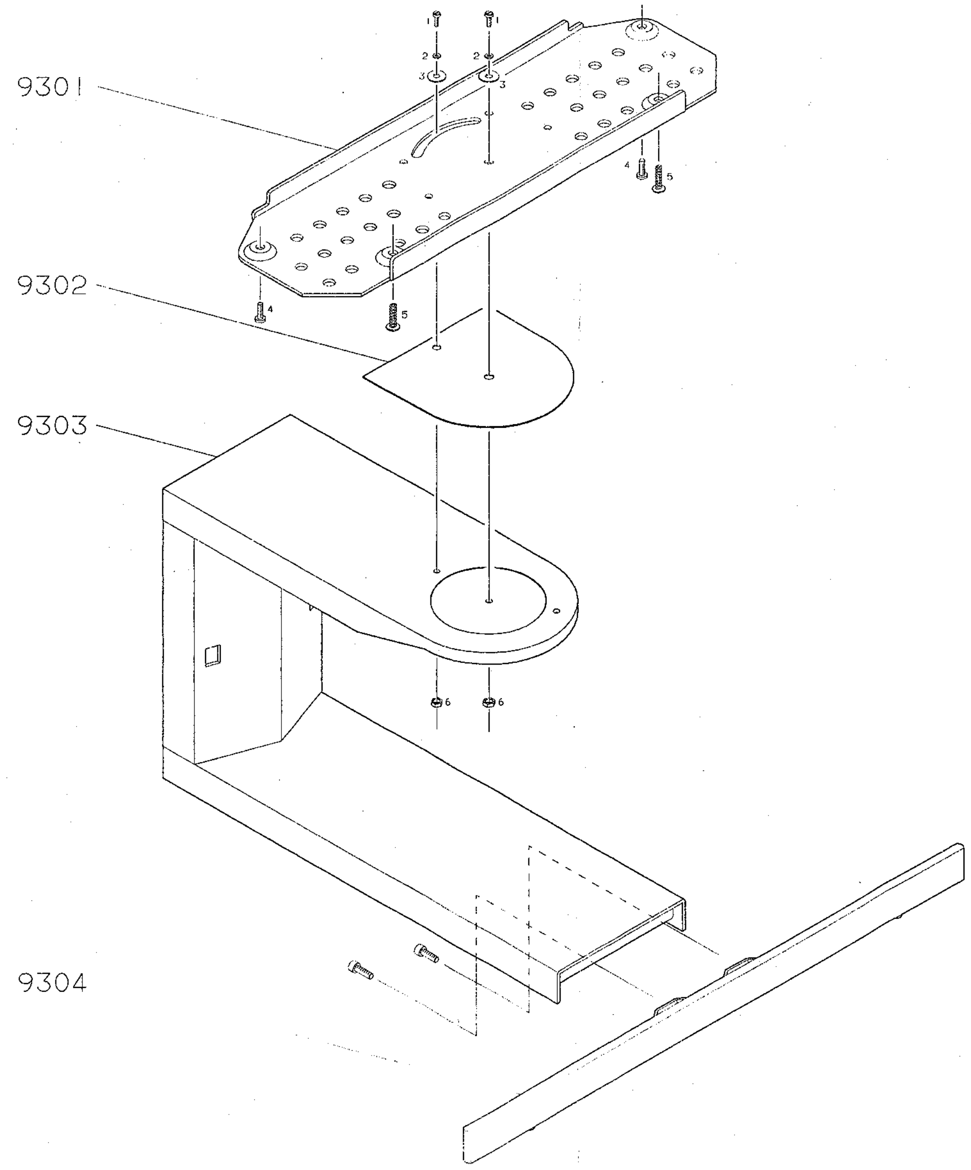


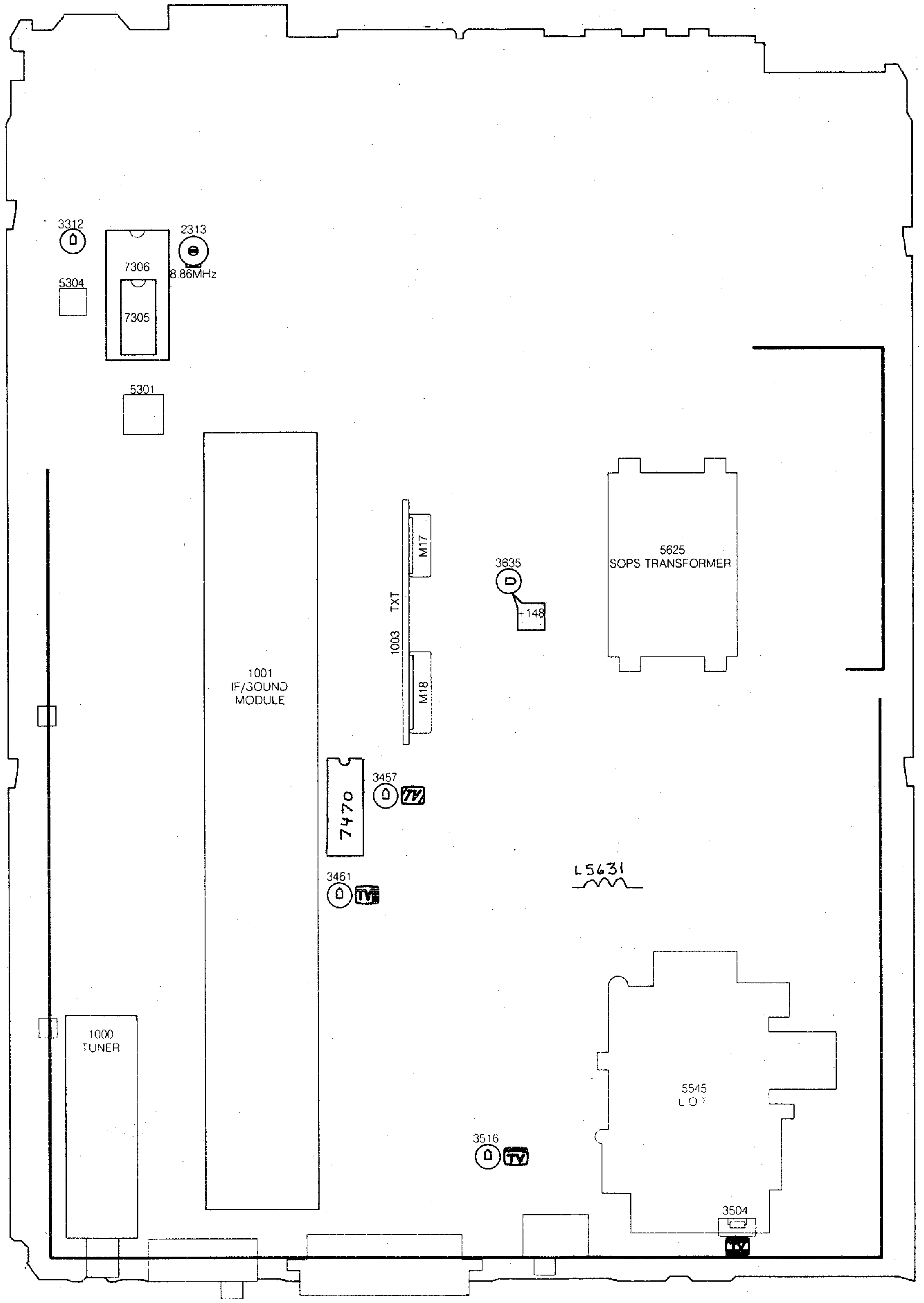
Table 1410866 – LE 6000	9101	3152531	Holder
	9102	3103301	Post, left
	9103	3032019	Wheel
	9104	3152531	Holder
	9105	1410466	Traverse
	9106	3103300	Post, right
	9107	3032019	Wheel
Parts not shown		3390273	Bag with parts
		3397564	Foam packing
		3391963	Outer carton
SH 1413113 **SH 1412413**		1413113	Shelf V 6000
		1412413	Shelf V 3000
	9108	3152748	Holder, right
	9109	3152749	Holder, left
Parts not shown		3392240	Bag with parts
		3504457	Assembling guide
		3397839	Foam packing 25"/28"
		3397840	Foam packing
		3392241	Outer carton

ST 4128 – ME 6000



Stand 1412866	9301	3124117	Mounting plate
	9302	3915044	Gasket
	9303	3451373	Frame
		3341061	Cover
	9304	3458828	Profile
		3035055	Rubber foot
Survey of screws and washers	1	2046024	Screw 6x16
	2	2622413	Washer
	3	2622414	Washer, plastic
	4	2044055	Screw 5x16
	5	2021011	Screw 5x15
	6	2380130	Nut M6
Parts not shown		3390495	Bag with parts
		3397934	Foam packing
		3392384	Outer carton
		1412966	Shelf f. V6000
		3504504	Assembling guide

Main Panel Module 1



ADJUSTMENTS
Conditions

All electrical adjustments should be made under the following conditions:

- Mains voltage: 220-240V ±10%, 50 Hz ±5%.
- The TV must have been ON for approx. 10 minutes.
- The voltages and oscillograms have been measured with regard to tuner ground.
- Measuring probe: Ri >10Mohms, Ci <2.5pF.
- For operation of the TV, see brief operation guide page 1-5.

After replacing the Main panel including all modules and the video outputmodule, only the following adjustments must be made/checked:
Vg2
Horizontal centring
Picture width
Vertical centring
Picture height
East/West correction
White balance
Cut-off

Module 01, Main panel
148V supply voltage

- Connect a DC voltmeter to coil 5631.
- Adjust potentiometer 3635 until a supply voltage of +148V ±0.5V.

Focus

- Set the brilliance and colour saturation to their nominal values (32).
- Set the contrast to the maximum value.
- Adjust to optimum focusing as viewed approx. 10 cm. from the edge of the screen by means of the focus potentiometer on the top of the line output transformer.

Vg2 (Spot cut-off)

- Set the brilliance and contrast to minimum.
- Connect an oscilloscope to TP51, TP52 and TP53 on module 09, Video output (fig. 2).
- Read out the levels of the cut-off pulse during the vertical blanking period, measured in the three test points, and connect the oscilloscope to the test point with the highest level.
- If module 09, Video output, is marked with no. 8211 015 0429 5 in the copper foil, adjust the G2 potentiometer on the line output transformer, until the level of the cut-off pulse is 155V DC (absolute maximum level, fig.1).
  If module 09 is marked with no. 8211 015 0429 4 in the copper foil, adjust the G2 potentiometer until the level of the cut-off pulse is 170V DC (absolute maximum level, fig.1).

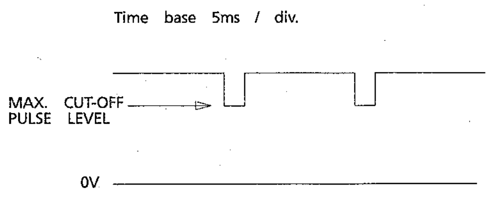


fig. 1

Alternative Vg2
(Spot cut-off) adjustment
(to get precise
adjustment the procedure using
oscilloscope,
mentioned above, should
be followed)

- Do not connect any signal to the TV.
- Set the brilliance and contrast to their nominal values (32).
- Press V.TAPE.
- Adjust the G2 potentiometer on the line output transformer, until there are just visible fly-back lines on the TV screen. Then turn the G2 potentiometer backwards, until the TV screen just turns totally dark.

Horizontal synchronisation

- Connect pin 5 on IC 7470 to pin 9 on IC 7470.
- Connect a signal to the aerial input, and set the TV to receive the signal.
- Adjust potentiometer 3457 until the picture is strait.
- Remove the interconnection.

Horizontal centring

- Adjust with potentiometer 3461.

Picture width

- Adjust with potentiometer 3525 (on module 09 Video output).

Vertical centring

- Adjust with potentiometer 3516.

Picture height

- Adjust with potentiometer 3504.

East/West correction

- Adjust with potentiometer 3521 (on module 09 Video output).

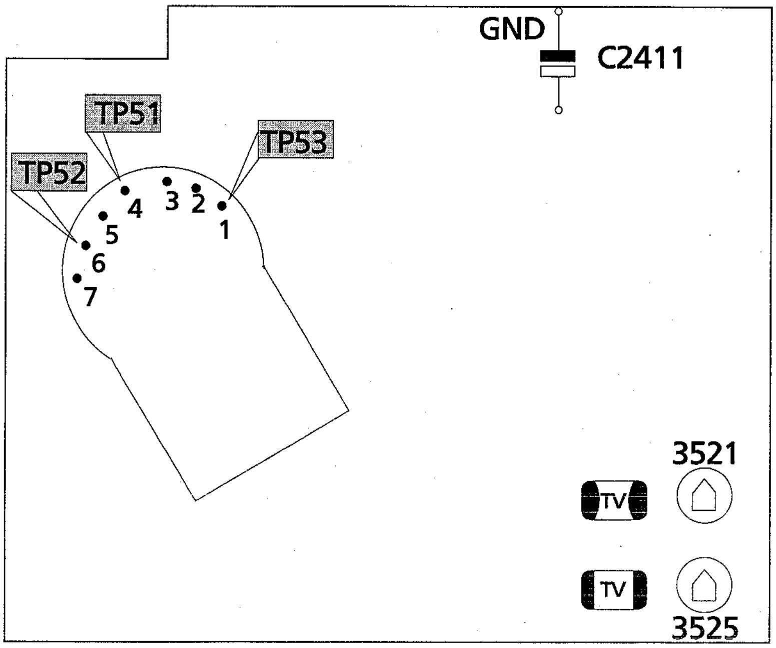


fig. 2

Chroma bandpass filter (PAL TV's, IC 7305 = TDA4510)

- Connect a PAL colour bar signal to the aerial input.
- Set the TV to receive the signal.
- Adjust coil 5301 to correct colour in the colour bar.

Chroma bandpass filter (PAL/SECAM TV's, IC 7306 = TDA4650)

- Connect a SECAM colour bar signal to the aerial input.
- Set the TV to receive the signal.
- Adjust coil 5301 to correct colour in the colour bar.

Chroma reference oscillator

- Connect a PAL colour bar signal to pin 20 of the AV1 connector.
- Select AV1 in the "Input" menu.
- Connect pin 11 on IC 7305 (TDA 4510) to ground (PAL TV's), or connect pin 17 on IC 7306 (TDA4650) to ground (PAL/SECAM TV's).
- Adjust capacitor 2313 to obtain minimum colour roll in the colour bar.
- Remove the interconnection.

SECAM demodulators (PAL/SECAM TV's only, IC 7306=TDA4650)

- Connect a SECAM black & white signal to the aerial input.
- Set the TV to receive the signal.
- Connect an oscilloscope to pin 1 on IC 7306.
- Adjust coil 5304 to minimun amplitude.
- Connect an oscilloscope to pin 3 on IC 7306.
- Adjust potentiometer 3312 to minimum amplitude.

White balance

- Connect a pattern generator to the aerial input, set it to 475.25 MHz and select a white picture.
- Bring the TV into service mode (see page 1-5).
- Set the colour saturation to 0.
- Select White balance in the "Service" menu.
- Adjust Green and Blue in the "White balance" menu to the proper white level.
- Press PLAY to store the values.
- White in the "White balance" menu must always be set to the value 43.

Cut-off

- Connect a pattern generator to the aerial input, set it to 475.25 MHz and select a colour bar picture.
- Bring the TV into service mode (see page 1-5).
- Set the colour saturation to 0.
- Select Cut off in the "service" menu.
- Adjust Red, Blue and Green in the "Cut off" menu until the dark fields in the test pattern are colourless.
- Press PLAY to store the values.

Module 07, IF & sound A2 & NICAM (PAL TV's only) FM demodulator PAL I

- Connect a pattern generator to the aerial input and set it to analogue sound.
- Set the TV to receive the signal.
- Connect an oscilloscope to pin 7 on IC 7100 (TDA 3857).
- Adjust coil 5102 to maximum amplitude.

FM demodulator PAL BG

- Connect a pattern generator to the aerial input and set it to A2 stereo L = 3kHz and R = 1kHz.
- Set the TV to receive the signal.

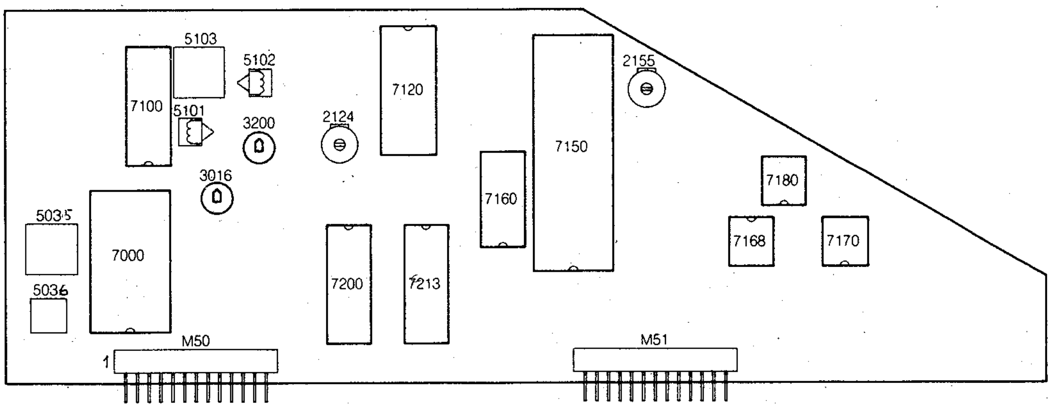
5.5MHz:

- Connect an oscilloscope to pin 7 on IC 7100 TDA 3857).
- Adjust coil 5102 to maximum amplitude.

5.74MHz:

- Connect an oscilloscope to pin 6 on IC 7100 (TDA 3857).
- Adjust coil 5101 to maximum amplitude.

Module 7, IF & Sound A2/NICAM



Picture demodulator

- Connect a signal to the aerial input, and set the TV to receive the signal.
- Connect an oscilloscope to pin 19 of the AV1 connector.
- Adjust coil 5035 until the front porch of the line sync pulse is as horizontal as possible.

AFC

- Connect pin 13 on IC 7470 to ground.
- Connect a signal to the aerial input, and set the TV to receive the signal.
- Connect a DC voltmeter to pin 11 on connector M50.
- Adjust coil 5036 to 1.5V DC.
- Remove the interconnection.

RF-AGC

- Connect a signal to the aerial input, and set the TV to receive the signal.
- Turn potentiometer 3016 fully anticlockwise, turn then 3016 clockwise until the picture is just free of noise.

Channel separation

- Connect a pattern generator to the aerial input, and set it to an A2 stereo signal.
- Select only the right-hand channel sound.
- Set the TV to receive the signal.
- Set the balance of the TV sound completely to the left.
- Adjust potentiometer 3200 to minimum sound reproduction in the left hand speaker.

Module 11, IF & Sound A2 stereo (PAL/SECAM TV's only)

Sound demodulator

- Connect a SECAM L signal to the aerial input.
- Set the TV to receive the signal.
- Adjust coil 5080 to minimum distortion in the picture.
  The adjustment is not critical.
- Connect a pattern generator to the aerial input, and set it to PAL BG and a colour bar signal.
- Connect an oscilloscope to pin 17 on IC 7100 (TDA 3856).
- Adjust coil 5104 to minimum amplitude.

FM demodulator PAL BG

- Connect a pattern generator to the aerial input, and set it to PAL BG A2 stereo, L = 3kHz and R = 1kHz.
- Set the TV to receive the signal.

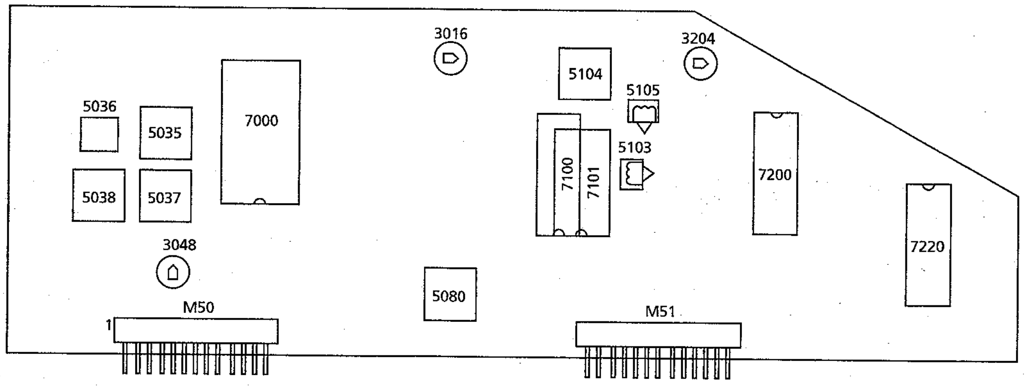
5.5MHz:

- Connect an oscilloscope to pin 9 on IC 7100 (TDA 3856).
- Adjust coil 5105 to maximum amplitude.

5.74MHz:

- Connect an oscilloscope to pin 8 on IC 7100 (TDA 3856).
- Adjust coil 5103 to maximum amplitude.

STEREO IF/SOUND MODULE 11



Picture demodulator

- Connect a SECAM L VHF band I aerial signal (transposed signal) to the aerial input. If such a signal, is not available on aerial, a Philips pattern generator PM 5518 set to SECAM L VHF band I can be used.
- Set the TV to receive the signal.
- Connect an oscilloscope to pin 19 of the AV1 connector.
- Adjust coil 5035 until the front porch of the line sync pulse is as horizontal as possible.
- Connect a SECAM L UHF signal to the aerial input.
- Set the TV to receive the signal.
- Connect an oscilloscope to pin 19 of the AV1 connector.
- Adjust coil 5037 until the front porch of the line sync pulse is as horizontal as possible.

AFC

- Connect pin 13 on IC 7470 to ground.
- Connect a SECAM L VHF band 1 aerial signal (transposed signal) to the aerial input.
- Set the TV to receive the signal.
  (If the channel frequncy is e.g. 55.75MHz, set the frequency line in the "Manual tune" menu to 56 and fine tune to -4. If the channel frequency is e.g. 60.50MHz, set the frequency line to 61 and fine tune to -8).
- Connect a DC voltmeter to pin 11 on connector M50.
- Adjust coil 5036 to 1.5V DC.
  If a SECAM L VHF band 1 signal is not avaible, and the customer is not able to receive such a signal, do not adjust coil 5036.
- Connect a SECAM L UHF signal to the aerial input.
- Set the TV to receive the signal.
  (If the channel frequency is e.g. 479.25MHz, set the frequency line in the "Manual tune" menu 479 and fine tune to +4).
- Connect a DC voltmeter to pin 11 on connector M50.
- Adjust coil 5038 to 1.5V DC.
- Remove the interconnection.

RF-AGC

- Connect a signal to the aerial input, and set the TV to receive the signal.
- Turn potentiometer 3016 fully anticlockwise, turn then 3016 clockwise until the picture is just free of noise.

IF-AGC

- Connect a SECAM L colour bar signal to the aerial input.
- Set the TV to receive the signal.
- Connect an oscilloscope to pin 3 of connector M50.
- Adjust potentiometer 3048 until the amplitude of the video signal is 1.8Vpp.

Channel separation

- Connect a pattern generator to the aerial input, and set it to a PAL BG A2 stereo signal.
- Select only the right-hand channel sound.
- Set the TV to receive the signal.
- Set the balance of the TV sound completely to the left.
- Adjust potentiometer 3204 to minimum sound reproduction in the left-hand speaker.

REPAIR TIPS

Error messages displayed on screen

Certain types of errors which may affect the communication on the I²C bus can cause an error message in the lower left-hand corner of the TV screen. The error message is shown simultanously with the TV program number.
Some errors will also make the st by LED flashing.

Error message	St by LED	Possible fault
"err chroma"	Flashing	IC7309 and surrounding components
"err tuner"	None	Tuner and surrounding components
"err eeprom"	None	IC7710 and surrounding components
"err 8425"	None	Sound processor IC7213 and surrounding components on module 7, or sound processor IC7220 and surrounding-components on module 11
"err 8415"	None	Stereo decoder IC7200 and surrounding components
"err NICAM"	None	NICAM decoder IC7150 and surrounding components
"err txt"	None	Teletext decoder IC7800, IC7820 and surrounding components
"err bus"	Flashing	I²C bus blocked
None	Flashing	µC IC7708 and surrounding components

If more than one error occur at the same time, only the most important error is displayed. The table is organized with less important errors at top, and major errors at the bottom.

Tuning

The tuning voltage can be measured on pin 11 of the tuner.
If an error occurs such that the tuning voltage is either maximum (32.5V) or minimum (1.1V) when trying to tune to a frequency, the error will probably be in the tuners PLL-circuit, and the tuner should be replaced.
AGC is supplied to the tuners pin 5 (5.8V with signal and 9.3V without signal).

Transistor 7625
BUT 12

If transistor 7625, BUT 12, in the power supply (SOPS) become defective all the time, it can be caused by a defective zener diode 6617.

Start-up

If the Standby LED do not turn green during start-up, there will be a fault in the line output circuits.

Corrections and modifications to LE 6000 service manual no. 3538810

Technical specifications
Page 1-2

Power consumption
Typical 107 watts, min. 6 watts

Brief operation guide
Page 1-5

The "multisystem" line in the "Options" must be "off"

List of electrical parts
Page 3-1

D6318 8300482 LL4148 75V is missing in the list.
D6367 is changed to 8300562 BZV C5V6.

Page 3-2

D6610 is changed to 8300917 BZV87-1V4.
D6850 is changed to 8300031 BZX79 C18.

R3585 is changed to 5021402 180 5% 1/3W.
R3610 is changed to 5021043 8.2 5% 1/3W.

Page 3-3

C2466 is changed to 4201173 10F 20% 50V.
C2468 is changed to 4201174 2.2F 20% 50V.
C2646 is changed to 4201287 15F 20% 50V.

Page 3-6

D6134 is changed to 8300918 OF4271.

C2072 is changed to 4201174 2.2F 20% 50V.

Page 3-7

C2217 and C2219 are changed to 4201172 4.7F 20% 63V.

On PCB7 a small PCB no. 8007329 is mounted instead of filter 1105 in some system BG TV's.

Page 3-8

There is two versions of PCB09 Video Output, see this servicemanual.

PCB10
R3833 is changed to a coil 8020822 3.3H.

C2818 4010166 100nF -20+80% 50V is missing in the list.

Adjustments
Section 5

Picture demodulator and AFC adjustment are altered, see this service manual.

Vg2 (Spot cut-off). There is two versions of this adjustment, see this service manual.

EINSTELLUNGEN
Vorbedingungen:

Für sämtliche elektrischen Einstellungen gelten die folgenden Vorbedingungen:
- Netzspannung: 220-240 V ±10%, 50 Hz ±5%.
- Das TV-Gerät muß für ca. 10 Minuten eingeschaltet gewesen sein.
- Spannungen und Oszillogramme sind im Verhältnis zur Tuner-Masse gemessen worden.
- Meßsonde: Ri >10 MOhm, Ci <2,5 pF.
- Bedienung des TV-Gerätes, siehe kurze Bedienungsanleitung – Seite 1-5.

Nach Austausch des Hauptpanels mit allen Modulen und des Video-Ausgangsmoduls sind lediglich die folgenden Einstellungen vorzunehmen/zu kontrollieren:

Vg2
Horizontal-Zentrierung
Bildbreite Vertikal-Zentrierung
Bildhöhe
Ost/West-Korrektur
Weiß-Balance
Cut-off (Sperrpunkt)

Modul 01, Hauptpanel
148 V-Versorgungsspannung

- DC-Voltmeter an Spule 5631 anschließen.
- Mit Potentiometer 3635 abgleichen, bis Versorgungsspannung bei +148 V ±0,5 V liegt.

Fokussierung

- Helligkeit und Farbsättigung auf ihre Nennwerte einstellen (32).
- Kontrast auf Maximalwert einstellen.
- Auf optimale Fokussierung (Bildschärfe), ca. 10 cm vom Bildschirmrand gesehen – mit Hilfe des oben am Zeilentransformator vorgesehenen Fokussierpotentiometers abgleichen.

Vg2 (Spot Cut-off)

- Helligkeit und Kontrast auf Minimum einstellen.
- Oszilloskop an TP51, TP52 und TP53 auf Modul 09 'Video Output' (Abb. 2) anschließen.
- Pegel der Cut-off-Impulse während der Vertikal-Austastperiode, in den drei Testpunkten gemessen, auslesen und Oszilloskop an Testpunkt mit dem höchsten Pegel anschließen.
- Falls Modul 09 'Video Output' auf der Kupferfolie die Nr. 8211 015 0429 5 trägt, ist mit dem G2-Potentiometer am Zeilentransformater so lange abzugleichen, bis der Pegel des Cut-off-Impulses bei 155 V DC liegt (absoluter Maximalpegel, Abb. 1).
- Falls Modul 09 'Video Output' auf der Kupferfolie die Nr. 8211 015 0429 4 trägt, ist mit dem G2-Potentiometer am Zeilentransformator so lange abzugleichen, bis der Pegel des Cut-off-Impulses bei 170 V DC liegt (absoluter Maximalpegel, Abb. 1).

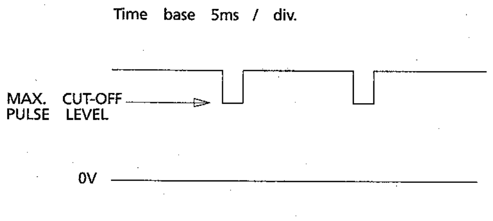


Abb. 1

Alternative Vg2 (Spot Cut-off) Einstellung (zur Erzielung einer genauen Einstellung ist das Verfahren mit Oszilloskop – wie oben beschrieben – zu befolgen).

- In diesem Fall ist kein Signal an das TV-Gerät anzuschließen. - Helligkeit und Konstrast auf ihre Nennwerte einstellen (32).
- Taste V.TAPE drücken.
- Mit dem G2-Potentiometer am Zeilentransformator so lange abgleichen, bis Rücklaufzeilen auf dem Bildschirm gerade sichtbar sind. Dann G2-Potentiometer rückwärtsdrehen, bis der Bildschirm gerade ganz dunkel wird.

Horizontal-Synchronisierung

- Anschluß 5 des IC7470 mit Anschluß 9 des IC7470 verbinden.
- Ein Signal an den Antenneneingang anschließen und TV-Gerät auf Signalempfang einstellen.
- Mit Potentiometer 3457 abgleichen, bis das Bild gerade ist.
- Verbindung wieder entfernen.

Horizontal-Zentrierung

- Mit Potentiometer 3461 abgleichen.

Bildbreite

- Mit Potentiometer 3525 abgleichen (auf Modul 09 'Video-Output').

Vertikal-Zentrierung

- Mit Potentiometer 3516 abgleichen.

Bildhöhe

- Mit Potentiometer 3504 abgleichen.

Ost/West-Korrektur

- Mit Potentiometer 3521 abgleichen (auf Modul 09 'Video-Output').

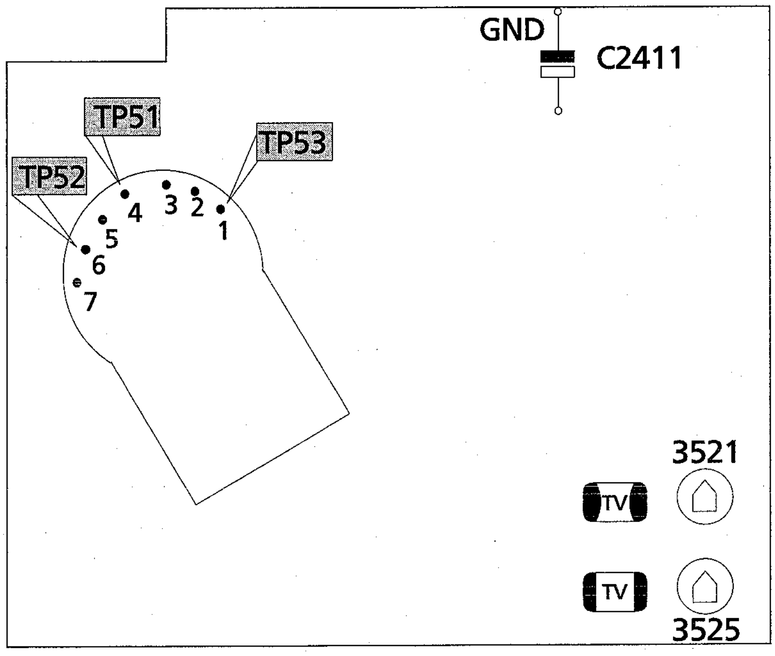


Abb. 2

Chroma-Bandpaßfilter (PAL Geräte, IC7305 = TDA4510)

- Ein PAL-Farbbalkensignal an den Antenneneingang anschließen.
- TV-Gerät auf Signalempfang einstellen.
- Mit Spule 5301 auf korrekte Farbe im Farbbalken einstellen.

Chroma-Bandpaßfilter (PAL/SECAM Geräte, IC7306 = TDA4650)

- Ein SECAM-Farbbalkensignal an den Antenneneingang anschließen.
- TV-Gerät auf Signalempfang einstellen.
- Mit Spule 5301 auf korrekte Farbe im Farbbalken einstellen.

Chroma-Referenz-Oszillator

- Ein PAL-Farbbalkensignal an Anschluß 20 der AV1-Steckbuchse anschließen.
- Im "Input"-Menü den Menüpunkt "AV1" wählen.
- Anschluß 11 des IC7305 (TDA4510) an Masse legen (PAL TV-Geräte) bzw. Anschluß 17 des IC7306 (TDA4650) an Masse legen (PAL/SECAM TV-Geräte).
- Mit Kondensator 2313 auf minimales Farbrollen im Farbbalken einstellen.
- Verbindung wieder entfernen.

SECAM-Demodulatoren (Nur bei PAL/SECAM Geräten, IC7306 = TDA4650)

- Ein SECAM-Schwarz/Weiß-Signal an den Antenneneingang anschließen.
- TV-Gerät auf Signalempfang einstellen.
- Oszilloskop an Anschluß 1 des IC7306 anschließen.
- Mit Spule 5304 auf minimale Amplitude abgleichen.
- Oszilloskop an Anschluß 3 des IC7306 anschließen.
- Mit Potentiometer 3312 auf minimale Amplitude abgleichen.

Weiß-Balance

- Testbildgenerator an den Antenneneingang anschließen, auf 475,25 MHz einstellen und ein weißes Bild wählen.
- TV-Gerät in den Modus "Service" bringen (siehe Seite 1-5).
- Farbsättigung auf '0' einstellen.
- Im "Service"-Menü den Menüpunkt "White balance" wählen.
- Im "White balance"-Menü die Farben Grün (Green) und Blau (Blue) auf passenden Weißpegel abgleichen.
- Zum Speichern der Werte die Taste PLAY drücken.
- Im "White balance"-Menü muß Weiß immer auf den Wert 43 eingestellt sein.

Cut-off (Sperrpunkt)

- Testbildgenerator an den Antenneneingang anschließen, auf 475,25 MHz einstellen und ein Farbbalkenbild wählen.
- TV-Gerät in den Modus "Service" bringen (siehe Seite 1-5).
- Farbsättigung auf '0' einstellen.
- Im "Service"-Menü den Menüpunkt "Cut off" wählen.
- Im "Cut off"-Menü die Farben Rot (Red), Blau (Blue) und Grün (Green) einstellen, bis die dunklen Felder im Testbild farblos sind.
- Zum Speichern der Werte die Taste PLAY drücken.

Modul 07, IF & Sound A2 & NICAM (ZF & Ton A2 & NICAM) (Nur PAL Geräte)

FM-Demodulator PAL I

- Testbildgenerator an den Antenneneingang anschließen und auf Analog-Ton einstellen.
- TV-Gerät auf Signalempfang einstellen.
- Oszilloskop an Anschluß 7 des IC7100 (TDA 3857) anschließen.
- Mit Spule 5102 auf maximale Amplitude einstellen.

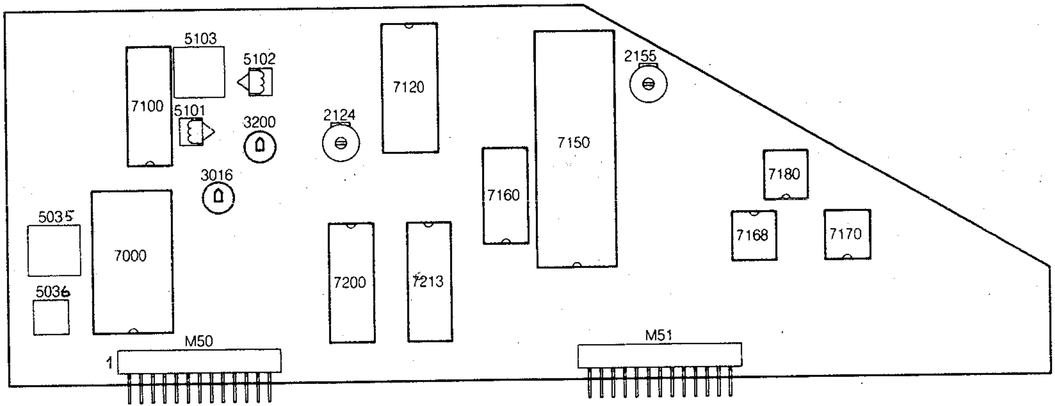
FM-Demodulator PAL BG

- Testbildgenerator an den Antenneneingang anschließen und auf A2-Stereoton einstellen - L = 3 kHz und R = 1 kHz.
- TV-Gerät auf Signalempfang einstellen.

5,5 MHz:
- Oszilloskop an Anschluß 7 des IC7100 (TDA 3857) anschließen.
- Mit Spule 5102 auf maximale Amplitude einstellen.

5,74 MHz:
- Oszilloskop an Anschluß 6 des IC7100 (TDA 3857) anschließen.
- Mit Spule 5101 auf maximale Amplitude einstellen.

Module 7, IF & Sound A2/NICAM



Picture-Demodulator (Bild-Demodulator)

- Ein Signal an den Antenneneingang anschließen und das TV-Gerät auf Signalempfang einstellen.
- Oszilloskop an Anschluß 19 der AV1-Steckbuchse anschließen.
- Mit Spule 5035 so lange abgleichen, bis die vordere Schwarzschulter des Zeilensynchronisierimpulses möglichst horizontal ist.

AFC

- Anschluß 13 des IC7470 an Masse legen.
- Ein Signal an den Antenneneingang anschließen und das TV-Gerät auf Signalempfang einstellen.
- DC-Voltmeter an Anschluß 11 der Steckbuchse M50 anschließen.
- Mit Spule 5036 auf 1,5 V DC abgleichen.
- Verbindung entfernen.

RF-AGC

- Ein Signal an den Antenneneingang anschließen und das TV-Gerät auf Signalempfang einstellen.
- Das Potentiometer 3016 gegen den Uhrzeigersinn bis zum Anschlag drehen; dann 3016 im Uhrzeigersinn drehen, bis das Bild gerade rauschfrei ist.

Channel Separation (Kanaltrennung)

- Testbildgenerator an den Antenneneingang anschließen und auf ein A2-Stereosignal einstellen.
- Nur Ton im rechten Kanal wählen.
- TV-Gerät auf Signalempfang einstellen.
- Balance des TV-Tons ganz links stellen.
- Mit Potentiometer 3200 auf minimale Tonwiedergabe im linken Lautsprecher einstellen.

Modul 11, IF & Sound A2-Stereo
(ZF & Ton A2-Stereo)
(Nur PAL/SECAM Geräte)
Ton-Demodulator

- Ein SECAM L-Signal an den Antenneneingang anschließen.
- TV-Gerät auf Signalempfang einstellen.
- Mit Spule 5080 auf minimale Verzerrung des Bildes abgleichen. Die Einstellung ist nicht kritisch.
- Testbildgenerator an den Antenneneingang anschließen und auf PAL BG und ein Farbbalkensignal einstellen.
- Oszilloskop an Anschluß 17 des IC7100 (TDA 3856) anschließen.
- Mit Spule 5104 auf minimale Amplitude einstellen.

FM-Demodulator PAL BG

- Testbildgenerator an den Antenneneingang anschließen und auf PAL BG A2-Stereoton einstellen, L = 3 kHz und R = 1 kHz.
- TV-Gerät auf Signalempfang einstellen.

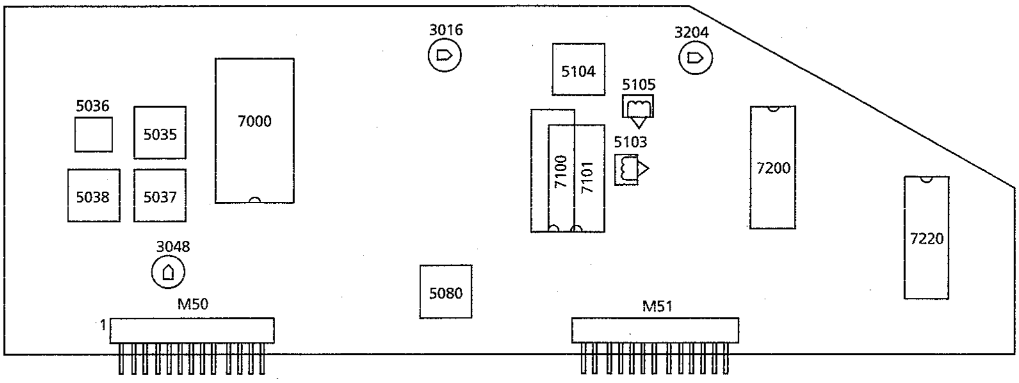
5,5 MHz:

- Oszilloskop an Anschluß 9 des IC7100 (TDA 3856) anschließen.
- Mit Spule 5105 auf maximale Amplitude einstellen.

5,74 MHz:

- Oszilloskop an Anschluß 8 des IC7100 (TDA 3856) anschließen.
- Mit Spule 5103 auf maximale Amplitude einstellen.

STEREO IF/SOUND MODULE 11



Picture-Demodulator (Bild-Demodulator)

- Ein SECAM L VHF-Band 1 Antennensignal (Transposed Signal) an den Antenneneingang anschließen. Falls ein solches Signal an der Antenne nicht zur Verfügung steht, kann ein Philips Testgenerator PM 5518 benutzt werden. Er muß auf SECAM L VHF Band 1 eingestellt sein.
- TV-Gerät auf Signalempfang einstellen.
- Oszilloskop an Anschluß 19 der AV1-Steckbuchse anschließen.
- Mit Spule 5035 so lange abgleichen, bis die vordere Schwarzschulter des Zeilensynchronisierimpulses möglichst horizontal ist.
- Ein SECAM L UHF Signal an den Antenneneingang anschließen.
- TV-Gerät auf Signalempfang einstellen.
- Oszilloskop an Anschluß 19 der AV1-Steckbuchse anschließen.
- Mit Spule 5037 so lange abgleichen, bis die vordere Schwarzschulter des Zeilensynchronisierimpulses möglichst horizontal ist.

AFC

- Anschluß 13 des IC7470 an Masse legen.
- Ein SECAM L VHF-Band 1 Antennensignal (Transposed Signal) an den Antenneneingang anschließen.
- TV-Gerät auf Signalempfang einstellen. (Wenn die Kanalfrequenz bei z.B. 55,75 MHz liegt, wird die Frequenzzeile im Menü "Manual tune" auf 56 eingestellt und anschließend auf -4 feinabgestimmt. Wenn die Kanalfrequenz bei z.B. 60,50 MHz liegt, wird die Frequenzzeile auf 61 eingestellt und anschließend auf -8 feinabgestimmt).
- DC-Voltmeter an Anschluß 11 der Steckbuchse M50 anschließen.
- Mit Spule 5036 auf 1,5 V DC abgleichen.
- Falls ein SECAM L VHF Band 1 Signal nicht zur Verfügung steht und der Kunde kein solches Signal empfangen kann, soll mit Spule 5036 nicht abgeglichen werden.
- Ein SECAM L UHF Signal an den Antenneneingang anschließen.
- TV-Gerät auf Signalempfang einstellen. (Wenn die Kanalfrequenz bei z.B. 479,25 MHz liegt, wird die Frequenzzeile im Menü "Manual tune" auf 479 eingestellt und anschließend auf +4 feinabgestimmt).
- DC-Voltmeter an Anschluß 11 der Steckbuchse M50 anschließen.
- Mit Spule 5038 auf 1,5 V DC abgleichen.
- Verbindung entfernen.

RF-AGC

- Ein Signal an den Antenneneingang anschließen und das TV-Gerät auf Signalempfang einstellen.
- Das Potentiometer 3016 gegen den Uhrzeigersinn bis zum Anschlag drehen; dann 3016 im Uhrzeigersinn drehen, bis das Bild gerade rauschfrei ist.

ZF-AGC (IF-AGC)

- Ein SECAM L Farbbalkensignal an den Antenneneingang anschließen.
- TV-Gerät auf Signalempfang einstellen.
- Oszilloskop an Anschluß 3 der Steckbuchse M50 anschließen.
- Mit Potentiometer 3048 so lange abgleichen, bis die Amplitude des Video-Signals bei 1,8 Vss liegt.

Channel Separation (Kanaltrennung)

- Testbildgenerator an den Antenneneingang anschließen und auf ein PAL BG A2-Stereosignal einstellen.
- Nur Ton im rechten Kanal wählen.
- TV-Gerät auf Signalempfang einstellen.
- Balance des TV-Tons ganz links stellen. – Mit Potentiometer 3204 auf minimale Tonwiedergabe im linken Lautsprecher einstellen.

REPARATUR TIPS

Auf dem Bildschirm angezeigte Fehlermeldungen

Gewisse Fehlertypen, die die Kommunikation auf dem I²C-Bus stören können, können in der unteren linken Bildschirmecke eine Fehlermeldung zur Anzeige bringen. Die Fehlermeldung wird gleichzeitig mit der TV-Programmnummer angezeigt.
Einige Fehler werden auch bewirken, daß die Standby-LED blinkt.

Fehlermeldung	St.by LED	Mögliche Ursache
"err chroma"	Blinken	IC7309 und umgebende Komponenten.
"err tuner"	Kein Blinken	Tuner und umgebende Komponenten.
"err eeprom"	Kein Blinken	IC7710 und umgebende Komponenten.
"err 8425"	Kein Blinken	Tonprozessor IC7213 und umgebende Komponenten auf Modul 07 bzw. Tonprozessor IC7220 und umgebende Komponenten auf Modul 11.
"err 8415"	Kein Blinken	Stereo-Decoder IC7200 und umgebende Komponenten.
"err NICAM"	Kein Blinken	NICAM-Decoder IC7150 und umgebende Komponenten.
"err txt"	Kein Blinken	Videotext-(Teletext)-Decoder IC7800, IC7820 und umgebende Komponenten.
"err bus"	Blinken	I²C-Bus blockiert.
Keine Meldung	Blinken	C IC7708 und umgebende Komponenten.

Falls gleichzeitig mehr als ein Fehler auftritt, wird nur der bedeutendste Fehler zur Anzeige gebracht. Die Tabelle enthält oben die weniger bedeutenden Fehler, unten die bedeutenderen Fehler.

Abstimmung (Tuning)

Die Abstimmspannung kann am Anschluß 11 des Tuners gemessen werden. Falls ein Fehler auftritt, der bewirkt, daß die Abstimmungspannung beim Abstimmen auf eine Frequenz entweder beim Maximalwert (32,5 V) oder beim Minimalwert (1,1 V) liegt, ist der Fehler wahrscheinlich im PLL-Kreis des Tuners zu suchen sein, und der Tuner sollte deshalb ausgetauscht werden.
AGC wird an den Anschluß 5 des Tuners geliefert (5,8 V mit Signal und 9,3 V ohne Signal).

Transistor 7625 (BUT 12)

Falls der Transistor 7625, BUT 12, in der Spannungsversorgung (SOPS) dauernd Fehler aufweist, kann dies auf eine fehlerhafte Zenerdiode 6617 zurückzuführen sein.

Anlauf (Start-up)

Falls die Standby-LED beim Anlaufen des Geräts nicht grün wird, ist dies auf einen Fehler in den 'Line Output'-Schaltkreisen zurückzuführen.

Berichtigungen und Modifikationen zum LE 6000 Service-Manual Nr. 3538810

Technische Daten
Seite 1-2

Leistungsaufnahme:
Typisch 107 Watt, min. 6 Watt.

Kurze Bedienungsanleitung
Seite 1-5

Die "Multisystem"-Zeile unter "Options" muß in Stellung "Aus" (OFF) sein.

Liste über elektrische Teile
Seite 3-1

D6318 8300482 LL4148 75V fehlt in der Liste.
D6367 wurde in 8300562 BZV C5V6 abgeändert.

Seite 3-2

D6610 wurde in 8300917 BZV87-1V4 abgeändert.
D6850 wurde in 8300031 BZX79 C18 abgeändert.

R3585 wurde in 5021402 180 Ohm 5% 1/3W abgeändert.
R3610 wurde in 5021043 8,2 Ohm 5% 1/3W abgeändert.

Seite 3-3

C2466 wurde in 4201173 10F 20% 50V abgeändert.
C2468 wurde in 4201174 2,2F 20% 50V abgeändert.
C2646 wurde in 4201287 15F 20% 50V abgeändert.

Seite 3-6

D6134 wurde in 8300918 OF4271 abgeändert.

C2072 wurde in 4201174 2,2F 20% 50V abgeändert.

Seite 3-7

C2217 und C2219 wurden in 4201172 4,7F 20% 63V abgeändert.

Bei einigen System BG Geräten ist auf PCB 7 eine kleine PCB Nr. 8007329 an Stelle von Filter 1105 montiert.

Seite 3-8

Es gibt zwei PCB09 'Video Output'-Versionen; siehe hierzu dieses Service-Manual.

PCB10

R3833 wurde in eine Spule 8020822 3,3H abgeändert.

C2818 4010166 100nF -20+80% 50V fehlt in der Liste.

Einstellungen
Abschnitt 5

Bild-Demodulator (Picture demodulator) und AFC-Einstellung wurden geändert; siehe hierzu dieses Service-Manual.

Vg2 (Spot Cut-off). Es gibt zwei Versionen von dieser Einstellung; siehe hierzu dieses Service-Manual.

REGLAGES
Conditions

Il convient de procéder à l'ensemble des réglages électriques dans les conditions suivantes :

- Tension secteur : 220-240 V ±10%, 50 Hz ±5%.
- Le téléviseur doit avoir été allumé durant une dizaine de minutes.
- Les tensions et les oscillogrammes doivent avoir été relevés en mettant en oeuvre la masse du sélecteur de canaux.
- Capteur de mesure : Ri >10 MΩ, Ci <2,5 pF.
- Pour intervenir sur le téléviseur, se reporter à l'abrégé d'utilisation de la page 1-5.

Après avoir remplacé le panneau principal logeant l'ensemble des modules et le module de sortie vidéo, seuls les réglages et contrôles suivants s'imposent :

Vg2
Centrage horizontal
Largeur d'image
Centrage vertical
Hauteur d'image
Correction est-ouest
Balance du blanc
Point de coupure

Module 01, panneau principal
Alimentation 148 V

- Raccorder un voltmètre cc à la bobine 5631.
- Régler le potentiomètre 3635 jusqu'à obtenir une tension d'alimentation de +148 V ±0,5 V.

Concentration

- Régler la brillance et la saturation des couleurs sur leurs valeurs nominales (32).
- Régler le contraste sur sa valeur maximale.
- Régler sur une concentration optimale en observant à 10 cm env. le bord de l'écran. Pour ce faire, utiliser le potentiomètre de concentration situé sur le haut du transformateur de sortie ligne.

Vg2 (coupure du spot)

- Régler la brillance et le contraste sur leurs valeurs minimales.
- Raccorder un oscilloscope à TP51, TP52 et TP53 au niveau du module 09, sortie vidéo (fig. 2).
- Relever aux trois points d'essai les niveau de l'impulsion de coupure durant la suppression du retour vertical. Raccorder l'oscilloscope au point d'essai présentant le niveau le plus élevé.
- En présence d'un module 09, sortie vidéo, portant la réf. 8211 015 0429 5 sur la feuille de cuivre, régler le potentiomètre G2 apparié au transforma- teur de sortie ligne jusqu'à obtenir une impulsion de coupure de 155 V cc (niveau maximal absolu, fig. 1).
  En présence d'un module 09 portant la réf. 8211 015 0429 4 sur la feuille de cuivre, régler le potentiomètre G2 jusqu'à obtenir une impulsion de coupure de 170 V cc (niveau maximal absolu, fig. 1).

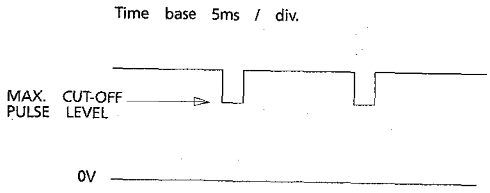


fig. 1

Autre possibilité de régler Vg2 (coupure du spot) (ilconvient de respecter le mode opératoire ci-dessusfaisant intervenir unoscilloscope pour obtenirun réglage précis)

- Ne pas appliquer de signal au téléviseur.
- Régler la brillance et le contraste sur leur valeurs nominales (32).
- Appuyer sur V.TAPE
- Régler le potentiomètre G2 apparié au transformateur de sortie ligne jusqu'à obtenir l'apparition de lignes de retour de faisceau sur l'écran du téléviseur. Tourner ensuite le potentiomètre G2 dans le sens contraire pour que l'écran se noircisse complètement.

Synchronisation horizontale

- Raccorder la borne 5 de IC 7470 à la borne 9 de IC 7470.
- Appliquer un signal à l'entrée d'antenne et régler le téléviseur pour qu'il capte ce signal.
- Régler le potentiomètre 3457 jusqu'à obtenir une image calme.
- Remédier aux raccordements effectués.

Centrage horizontal

- Régler à l'aide du potentiomètre 3461.

Largeur d'image

- Régler à l'aide du potentiomètre 3525 (sur le module 09 sortie vidéo).

Centrage vertical

- Régler à l'aide du potentiomètre 3516.

Hauteur d'image

- Régler à l'aide du potentiomère 3504.

Correction est-ouest

- Régler à l'aide du potentiomètre 3521 (sur le module 09 sortie vidéo).

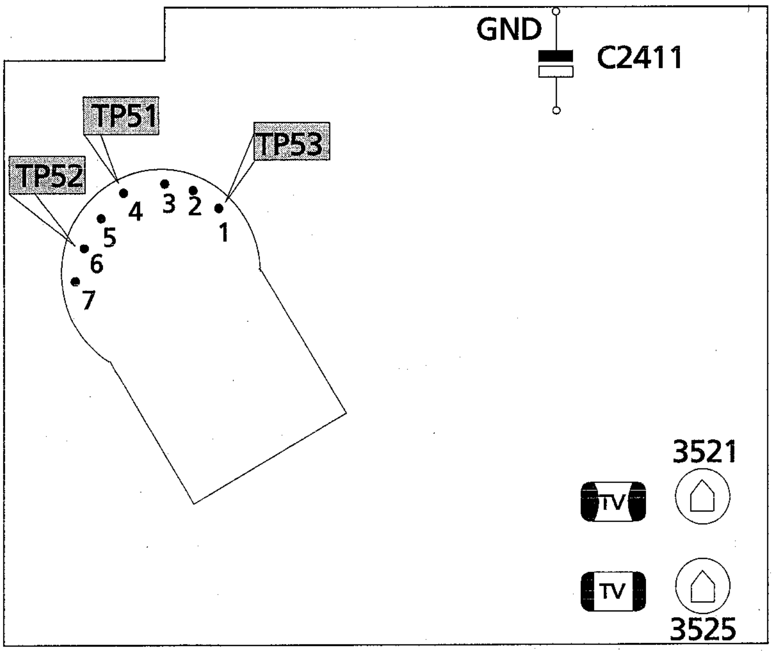


fig. 2

Filtre passe-bande chroma (téléviseurs PAL, IC 7305 = TDA4510)

- Raccorder un signal de barre de couleur PAL à l'entrée d'antenne.
- Régler le téléviseur pour qu'il capte ce signal.
- Régler la bobine 5301 pour obtenir une couleur de barre correcte.

Filtre passe-bande chroma (téléviseurs PAL/SECAM, IC 7306 = TDA4650)

- Raccorder un signal de barre de couleur SECAM à l'entrée d'antenne.
- Régler le téléviseur pour qu'il capte ce signal.
- Régler la bobine 5301 pour obtenir une couleur de barre correcte.

Oscillateur de référence chroma

- Raccorder un signal de barre de couleur PAL à la borne 20 du connecteur AV1.
- Choisir AV1 dans le menu ”entrée”.
- Raccorder la borne 11 de IC 7305 (TDA 4510) à la masse (téléviseurs PAL) ou raccorder la borne 17 de IC 7306 (TDA4650) à la masse (téléviseurs PAL/SECAM).
- Régler le condensateur 2313 pour obtenir un déroulement minimal de la couleur de la barre.
- Remédier aux raccordements effectués.

Démodulateurs SECAM (uniquement téléviseurs PAL/SECAM, IC 7306 = TDA4650)

- Appliquer un signal noir et blanc SECAM à l'entrée d'antenne.
- Régler le téléviseur pour qu'il capte ce signal.
- Raccorder un oscilloscope à borne 1 de IC 7306.
- Régler la bobine 5304 sur l'amplitude minimale.
- Raccorder un oscilloscope à la borne 3 de IC 7306.
- Régler le potentiomètre 3312 sur l'amplitude minimale.

Balance du blanc

- Raccorder un générateur de mire à l'entrée d'antenne, le régler sur 475,25 MHz et sélectionner une image blanche.
- Amener le téléviseur en mode de maintenance (voir page 1-5).
- Amener la saturation des couleurs sur 0.
- Sélectionner balance du blanc dans le menu de ”maintenance”.
- Régler le vert et le bleu dans le menu ”balance du blanc” pour obtenir le niveau de blanc approprié.
- Appuyer sur PLAY pour mémoriser les valeurs.
- Il convient de toujours affecter la valeur 43 au blanc dans le menu ”balance du blanc”.

Point de coupure

- Raccorder un générateur de mire à l'entrée d'antenne, le régler sur 475,25 MHz et sélectionner une image présentant des barres de couleur.
- Amener le téléviseur en mode de maintenance (voir page 1-5).
- Amener la saturation des couleurs sur 0.
- Sélectionner coupure dans le menu de ”maintenance”.
- Rélger les rouge, bleu et vert du menu ”coupure” jusqu'à ce que les zones foncées de la mire perdent leurs couleurs.
- Appuyer sur PLAY pour mémoriser les valeurs.

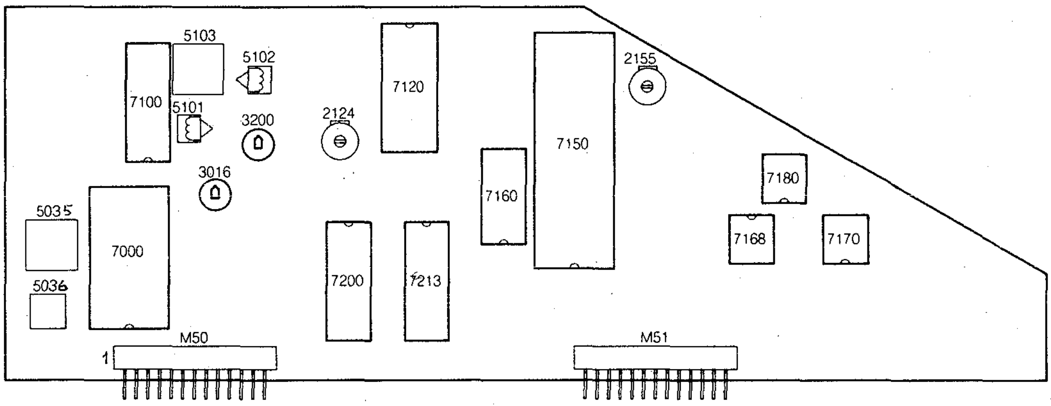
Module 07, FI et son A2 & NICAM (uniquement téléviseurs PAL) Démodulateur MF PAL I

- Raccorder un générateur de mire à l'entrée d'antenne et le régler sur un son traditionnel.
- Régler le téléviseur pour qu'il capte ce signal.
- Raccorder un oscilloscope à la borne 7 de IC 7100 (TDA 3857).
- Régler la bobine 5102 sur l'amplitude maximale.

Démodulateur MF PAL BG

- Raccorder un générateur de mire à l'entrée d'antenne et le régler sur le son stéréo A2. Voie gauche = 3 kHz, voie droite = 1 kHz.
- Régler le téléviseur pour qu'il capte ce signal.
  5,5 MHz :
- Raccorder un oscilloscope à la borne 7 de IC 7100 (TDA 3857).
- Régler la bobine 5102 sur l'amplitude maximale.
  5,74 MHz :
- Raccorder un oscilloscope à la borne 6 de IC 7100 (TDA 3857).
- Régler la bobine 5101 sur l'amplitude maximale.

Module 7, IF & Sound A2/NICAM



Démodulateur d'image

- Appliquer un signal à l'entrée d'antenne et régler le téléviseur pour qu'il capte ce signal.
- Raccorder un oscilloscope à la borne 19 du connecteur AV1.
- Régler la bobine 5035 pour obtenir une horizontalité maximale du flanc d'attaque de l'impulsion de synchronisation ligne.

CAF

- Raccorder la borne 13 de IC 7470 à la masse.
- Appliquer un signal à l'entrée d'antenne et régler le téléviseur pour qu'il capte ce signal.
- Raccorder un voltmètre cc à la borne 11 du connecteur M50.
- Régler la bobine 5036 sur une tension continue d'1,5 V.
- Remédier aux raccordements effectués.

CAG RF

- Appliquer un signal à l'entrée d'antenne et régler le téléviseur pour qu'il capte ce signal.
- Tourner le potentiomètre 3016 en butée dans le sens antihoraire, puis le tourner dans le sens horaire jusqu'à obtenir une image exempte de bruit.

Séparation des voies

- Raccorder un générateur de mire à l'entrée d'antenne et le régler sur un signal stéréo A2.
- Sélectionner uniquement le son de la voie droite.
- Régler le téléviseur pour qu'il capte ce signal.
- Amener la balance du son TV en butée gauche.
- Régler le potentiomètre 3200 pour obtenir une restitution minimale du son dans l'enceinte gauche.

Module 11, FI et son stéréo A2 (uniquement téléviseurs PAL/SECAM)
Démodulateur de son

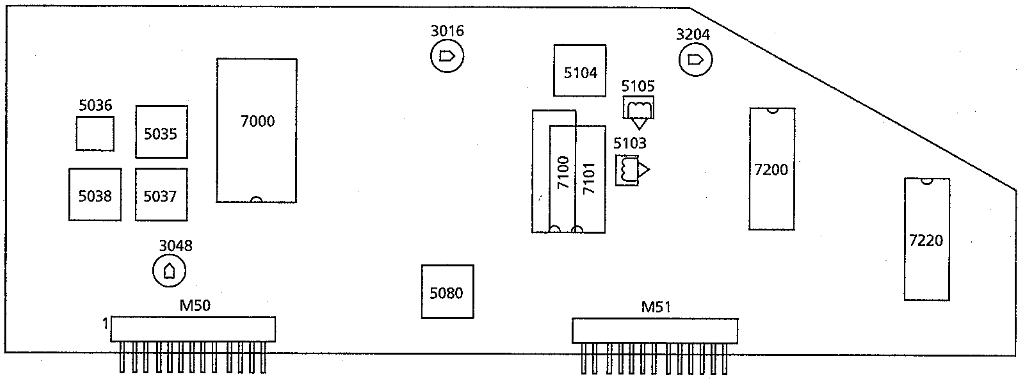
- Appliquer un signal SECAM L à l'entrée d'antenne.
- Régler le téléviseur pour qu'il capte ce signal.
- Régler la bobine 5080 pour obtenir une distorsion minimale de l'image. Ce réglage n'est pas déterminant.
- Raccorder un générateur de mire à l'entrée d'antenne. Le régler sur PAL BG et sur un signal de barre de couleur.
- Raccorder un oscilloscope à la borne 17 de IC 7100 (TDA 3856).
- Régler la bobine 5104 pour obtenir une amplitude minimale.

Démodulateur MF PAL BG

- Raccorder un générateur de mire à l'entrée d'antenne et le régler sur le son stéréo A2 PAL BG. Voie gauche = 3 kHz, voir droite = 1 kHz.
- Régler le téléviseur pour qu'il capte ce signal.

  5,5 MHz :
- Raccorder un oscilloscope à la borne 9 de IC 7100 (TDA 3856).
- Régler la bobine 5105 sur l'amplitude maximale.

  5,74 MHz :
- Raccorder un oscilloscope à la borne 8 de IC 7100 (TDA 3856).
- Régler la bobine 5103 sur l'amplitude maximale.


STEREO IF/SOUND MODULE 11

Démodulateur d'image

- Appliquer un signal d'antenne SECAM L, bande VHF I (signal transposé), à l'entrée d'antenne. Il est possible d'utiliser le générateur de mire Philips PM 5518 réglé sur la norme SECAM L, bande VHF I, en l'absence de ce signal au niveau de l'antenne.
- Régler le téléviseur pour qu'il capte ce signal.
- Raccorder un oscilloscope à la borne 19 du connecteur AV1.
- Régler la bobine 5035 pour obtenir une horizontalité maximale du flanc d'attaque de l'impulsion de synchronisation ligne.
- Appliquer un signal UHF SECAM L à l'entrée d'antenne.
- Régler le téléviseur pour qu'il capte ce signal.
- Raccorder un oscilloscope à la borne 19 du connecteur AV1.
- Régler la bobine 5037 pour obtenir une horizontalité maximale du flanc d'attaque de l'impulsion de synchronisation ligne.

CAF

- Raccorder la borne 13 de IC 7470 à la masse.
- Appliquer un signal d'antenne SECAM L, bande VHF I (signal transposé), à l'entrée d'antenne.
- Régler le téléviseur pour qu'il capte ce signal.

  (Si la fréquence du canal est de 55,75 MHz p. ex., régler la ligne fréquence du menu "accord manuel" sur 56, puis procéder au réglage fin en sélectionnant -4. Si la fréquence du canal est de 60,50 MHz p. ex., régler la ligne fréquence sur 61 , puis procéder au réglage fin en sélectionnant -8).
- Raccorder un voltmètre cc à la borne 11 du connecteur M50.
- Régler la bobine 5036 sur une tension continue de 1,5 V. Ne pas régler la bobine 5036 si le signal SECAM L, bande VHF I, fait défaut et que le client n'est pas à même de capter un tel signal.
- Raccorder un signal UHF SECAM L à l'entrée d'antenne.
- Régler le téléviseur pour qu'il capte ce signal.

  (Si la fréquence du canal est de 479,25 MHz p. ex, régler la ligne fréquence du menu "accord manuel" sur 479, puis procéder au réglage fin en sélectionnant +4).
- Raccorder un voltmètre cc à la borne 11 du connecteur M50.
- Régler la bobine 5038 sur une tension continue de 1,5 V.
- Remédier aux raccordements effectués.

CAG RF

- Appliquer un signal à l'entrée d'antenne et régler le téléviseur pour qu'il capte ce signal.
- Tourner le potentiomètre 3016 en butée dans le sens antihoraire, puis le tourner dans le sens horaire jusqu'à obtenir une image exempte de bruit.

CAG FI

- Appliquer un signal de barre de couleur SECAM L à l'entrée d'antenne.
- Régler le téléviseur pour qu'il capte ce signal.
- Raccorder un oscilloscope à la borne 3 du connecteur M50.
- Régler le potentiomètre 3048 pour obtenir un signal vidéo d'amplitude 1,8 Vcrête à crête.

Séparation des voies

- Raccorder un générateur de mire à l'entrée d'antenne et le régler sur un signal stéréo A2 PAL BG.
- Sélectionner uniquement le son de la voie droite.
- Régler le téléviseur pour qu'il capte ce signal.
- Amener la balance du son TV en butée gauche.
- Régler le potentiomètre 3204 pour obtenir une restitution minimale du son dans l'enceinte gauche.

CONSEILS DE RAPARATION

Messages d'erreur affichés sur l'écran

Divers types d'erreurs susceptibles d'affecter la communication du bus I²C peuvent se traduire par l'apparition d'un message dans le coin inférieur gauche de l'écran. Le message d'erreur est affiché avec le numéro du programme télévisé. Certaines erreurs entraînent également le clignotement de la DEL de veille.

Message	DEL de veille	Anomalie éventuelle
"err chroma"	Clignotement	IC7309 et composants avoisinants
"err tuner"	Pas de clignotement	Sélecteur de canaux et composants avoisinants
"err eeprom"	Pas de clignotement	IC7710 et composants avoisinants
"err 8425"	Pas de	Processeur son IC7213 et composants avoisinants du clignotement module 7 ou processeur son IC7220 et composants avoisinants du module 11
"err 8415"	Pas de clignotement	Décodeur stéréo IC7200 et composants avoisinants
"err NICAM"	Pas de clignotement	Décodeur NICAM IC7150 et composants avoisinants
"err txt"	Pas de clignotement	Décodeur vidéotex IC7800, IC7820 et composants avoisinants
"err bus"	Clignotement	Blocage du bus I²C
Aucun	Clignotement	Microcalculateur IC7708 et composants avoisionants

Seule l'erreur la plus grave est affichées si plusieurs anomalies se produisent simultanément. Ce tableau mentionne les erreurs pas ordre croissant d'importance.

Accord

Il est possible de mesurer la tension d'accord à la borne 11 du sélecteur de canaux.
Si cette tension affiche une valeur maximale (32,5 V) ou minimale (1,1 V) en essayant d'accorder une fréquence, tout porte à croire que la boucle à verrouillage de phase du sélecteur de canaux est endommagée. Il convient alors de la remplacer.
Le CAG est lu à la borne 5 du sélecteur de canaux (5,8 V avec signal et 9,3 sans signal).

Transistor 7625 BUT 12

Le mauvais fonctionnement permanent du transistor 7625, BUT 12, de l'alimentation électrique (SOPS) peut être imputable à l'endommagement de la diode Zener 6617.

Démarrage

Une anomalie affecte les circuits de sortie de ligne si la DEL de veille ne commute pas au vert lors du démarrage.

Corrections et modifications apportées au manuel de maintenance LE 6000 réf. 3538810

Caractéristiques techniques Page 1-2	Puissance absorbée Généralement 107 W, 6 W min.
Abrégé d'utilisation Page 1-5	La ligne ”multistandard” du menu ”options” doit être ”hors circuit”.
Nomenclature des composants électriques Page 3-1	D6318 8300482 LL4148 75V a été omis dans la nomenclature. D6367 est remplacé par 8300562 BZV C5V6.
Page 3-2	D6610 est remplacé par 8300917 BZV87-1V4. D6850 est remplacé par 8300031 BZX79 C18. R3585 est remplacé par 5021402 180 5% 1/3W. R3610 est remplacé par 5021043 8,2 5% 1/3W.
Page 3-3	C2466 est remplacé par 4201173 10F 20% 50V. C2468 est remplacé par 4201174 2,2F 20% 50V. C2646 est remplacé par 4201287 15F 20% 50V.
Page 3-6	D6134 est remplacé par 8300918 OF4271. C2072 est remplacé par 4201174 2,2F 20% 50V.
Page 3-7	C2217 et C2219 sont remplacés par 4201172 4,7µF 20% 63V. Dans certains téléviseurs adoptant les normes BG, la petite carte imprimée référencée 8007329 peut remplacer le filtre 1105 sur la carte PCB 7.
Page 3-8	Il existe deux versions de carte PCB09 sortie vidéo. Consulter le présent manuel de maintenance. PCB10 R3833 est remplacé par la bobine 8020822 3,3 µH. C2818 4010166 100 nF -20+80% 50 V a été omis dans la nomenclature.
Réglages Section 5	Le démodulateur d'image et le réglage du CAF ont été modifiés. Consulter le présent manuel de maintenance. Vg2 (coupure du spot). Ce réglage peut s'effectuer de deux manières. Consulter le présent manuel de maintenance.

DISASSEMBLY

Module 1, Main panel

Unscrew four screws to remove the rear panel.

After loosen some of the wires it is possible to take the main panel chassis out of the TV, and place it on the heat sink on the tuner side for repair.

Removing module 10, AV 2 Interface

ZERLEGUNG

Modul 1, Haputpanel

Zum Entfernen des Rückwandpanels sind vier Schrauben zu lösen.

Nach Lösen einiger der Leitungen ist es möglich, das Hauptpanelchassis aus dem TV-Gerät herauszunehmen und es zwecks Reparatur auf das seitlich am Tuner vorgesehene Kühlblech anzubringen.

Ausbau des Modul 10, AV 2 Interface

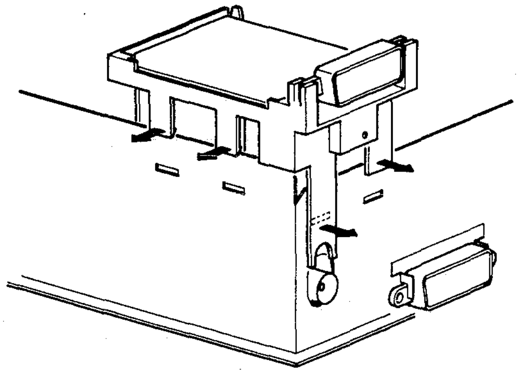
DESASSEMBLAGE

Module 1, panneau principal

Dévisser les quatre vis pour déposer la face arrière.

Il suffit de desserrer divers câbles pour pouvoir sortir le châssis du panneau principal hors du téléviseur. Le poser sur la plaque de refroidissement du côté sélecteur de canaux pour procéder aux répara

Dépose du module 10, AV 2 Interface



LE 6000

Contrast screen

Remove frame with loudspeaker cloth by first pulling carfully from the bottom, then in the middle and finally from the top.

Remove the four caps, two in each side, using a small flat screw driver.

The screws which hold the screen are now accessible.

Remove the two bottom screws and *one* from the top.

Hold tightly on to the screen while removing the last screw.

LE 6000

Kontrast-Filterscheibe

Den Rahmen mit Lautsprecherstoff entfernen, dabei zunächst unten vorsichtig nach außen ziehen, danach in der Mitte und zuletzt oben.

Die vier Deckel, jeweils zwei auf jeder Seite, mit einem kleinen flachen Schraubenzieher abnehmen.

Die Schrauben, die den Schirm festhalten, sind jetzt zugänglich.

Die beiden Schrauben unten abnehmen, oben *nur* eine.

Bei der Entfernung der letzten Schraube den Schirm gut festhalten.

LE 6000

Ecran à contraste

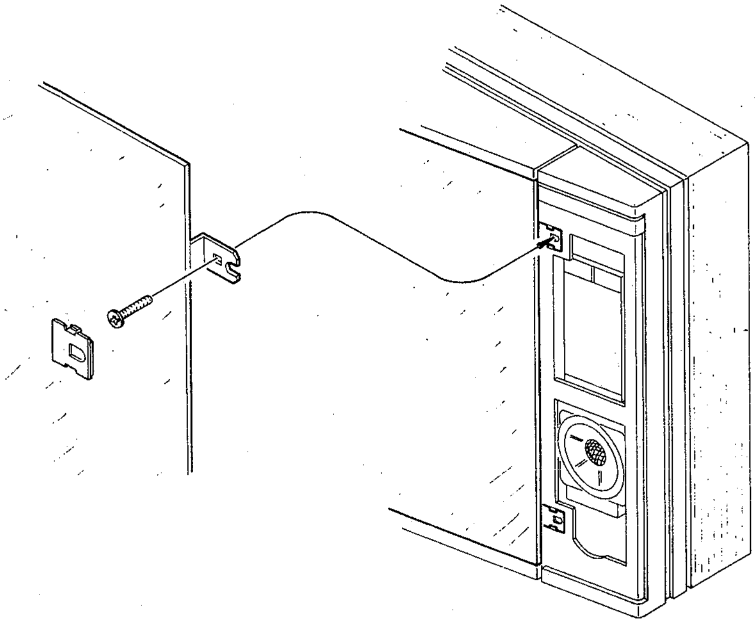
Déposer le châssis et les éléments des haut-parleurs en tirant doucement en bas, puis au milieu et enfin en haut.

Enlever les quatre couvercles, deux de chaque côté, avec un petit tournevis plat.

Les vis qui maintiennent l'écran sont maintenant accessibles.

Dévisser les deux vis inférieures et *uniquement* une vis du haut.

Bien tenir l'écran lors du dévissage des vis.



Front frame
(Access to IR receiver)

Remove the contrast screen.

Unscrew the two screws illustrated as well the two corresponding screws in the other side, and take of the front frame.

Blendrahmen
(Zugang zu IR Empfänger)

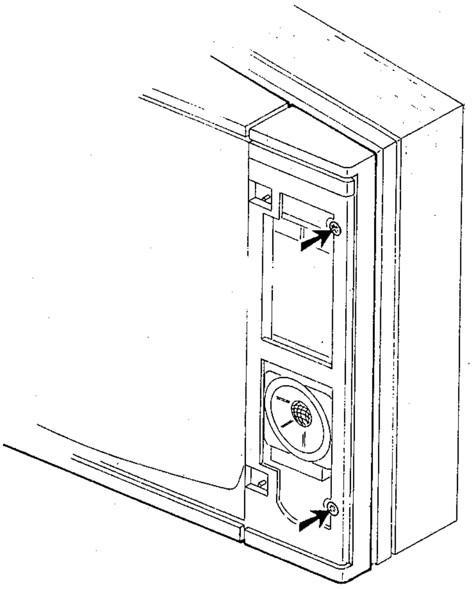
Abbau der Kontrast-Filterscheibe.

Die beiden abgebildeten Schrauben und die beiden entsprechenden Schrauben an der anderen Seite ausdrehen. Danach läßt sich der Blendrahmen abnehmen.

Châssis frontal
(Accès à le récepteur IR)

Déposer écran à contraste.

Enlever les deux vis montrées ainsi que les deux vis correspondantes de l'autre côté. Il est possible de déposer le châssis frontal.



ME 6000

Removal of contrast screen

Loosen the upper and lower plastic strips by firmly pressing the strips in one side (A) and simultaneously pulling at the end of the strips in the direction of the arrow B. The strips are now loose and can be removed.

Loosen the screw in each of the four corners. The contrast screen can now be removed.

ME 6000

Abnehmen der Kontrastfilterscheibe

Zum Entfernen der Zierleisten über und unter der Kontrastfilterschiebe die Leiste bei (A) andrücken und gleichzeitig ir Pfeilrichtung B herausziehen. Die Leisten können nun losgelöst werden.

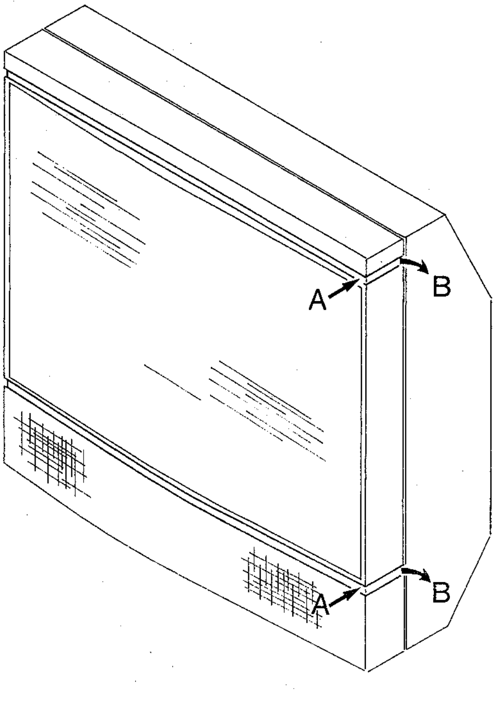
In jeder der vier Ecken befindet sich eine Schraube, die gelöst werden muß. Danach ist die Kontrastfilterscheibe frei.

ME 6000

Dépose de l'écran de contraste

Enlever les bandeaux de décoration bordant les parties supérieure et inférieure de l'écran de contraste. Y procéder en les enfonçant (A) tout en tirant dans le sens de la flèche B. Il est alors possible d'enlever les bandeaux sur tout le pourtour.

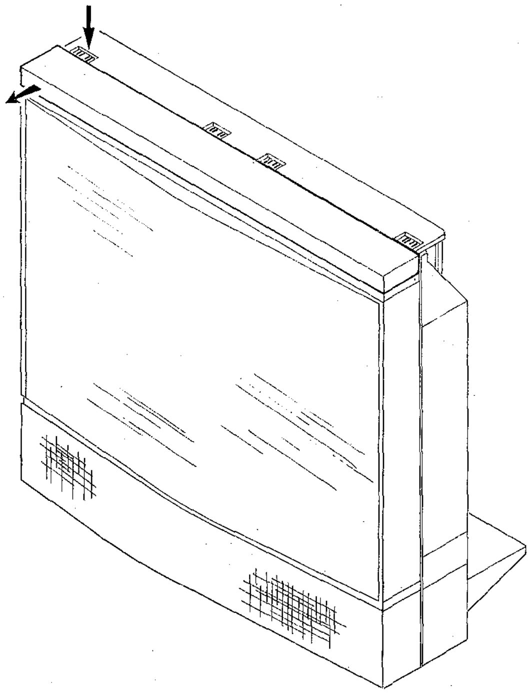
Une vis est logèe dans chacun des quatre coins. Les dévisser pour déposer l'écran de contraste.



Top panel

Oberteil

Partie supérieure du coffret



Loosen the panel in one side by releasing the lock with a screwdriver.

The top panel can now be removed.

Das Oberteil durch Betätigung der Verriegelung mit Hilfe eines Schraubenziehers an einer Seite lösen.

Das Oberteil läßt sich nunmehr entfernen.

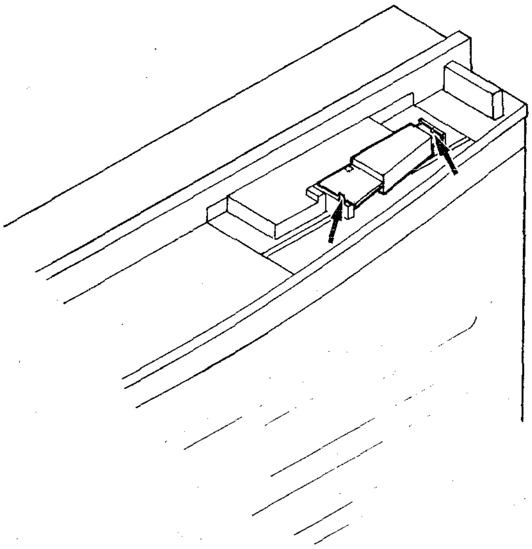
Détacher le coffret sur un côté en ouvrant le verrou avec un tournevis.

Il est alors possible de déposer la partie supérieure du coffret.

PCB 02 IR-receiver

PCB 02 IR-Empfänger

Récepteur IR, carte PCB 02



Release the two locks and remove the PCB by lifting it at its front.

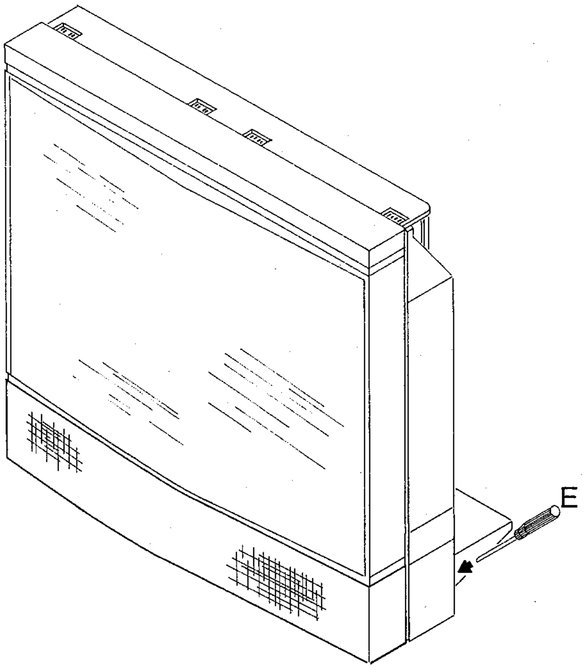
Die beiden Verriegelungen lösen und die PCB durch Anhebung an deren vorderen Kante herausnehmen.

Ouvrir les deux verrous et sortir la PCB en soulevant son rebord antérieur.

Loudspeaker panel

Lautsprecher-Frontbespannung

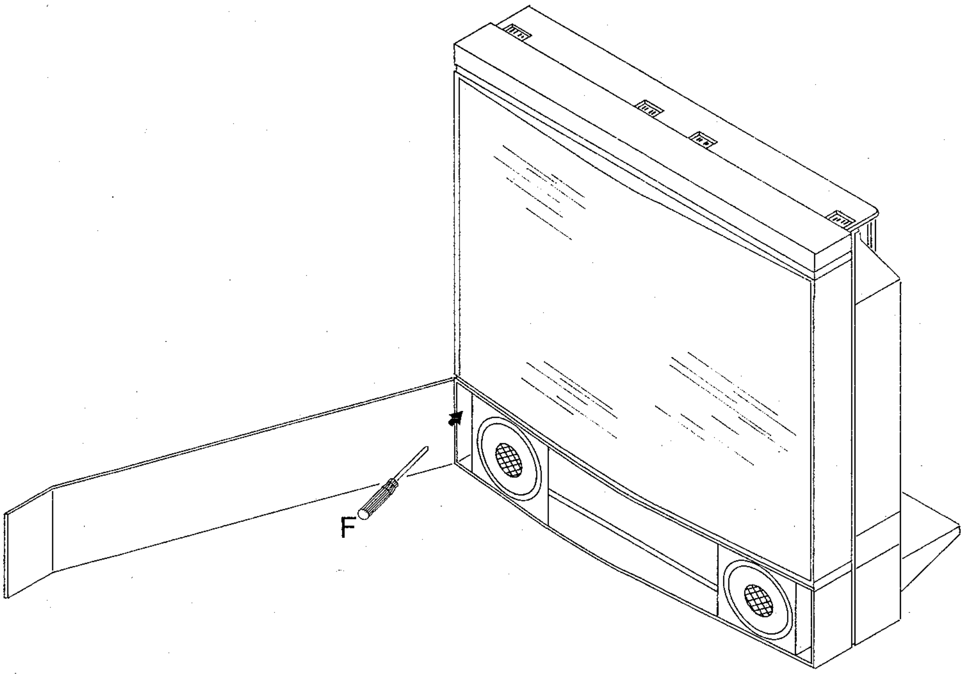
Bandeau recouvrant les haut-parleurs



Loosen the panel in the left-hand side (seen from behind) by inserting a screwdriver into the holes in the cabinet (E) to release the locks. Loosen the panel at the front of the set.

Die Frontbespannung an der linken Seite (Rückansicht) lockern, indem die Verriegelungen durch die Löcher im Gehäuse (E) hindurch mittels eines Schraubenziehers gelöst werden. Danach die Frontbespannung entlang der Kante losziehen.

Le badeau se détache du côté gauche (vu de derrière) en débloquant les verrous à l'aide d'un tournevis engagé dans les orifices du coffret (E). Tirer ensuite pour ouvrir le bandeau.



To detach the panel in the opposite side, release the locks by inserting a screwdriver between the panel and the cabinet (F).

Die Frontbespannung an der anderen Seite lösen, indem sie von vorne mittels eines Schraubenziehers entriegelt wird, der zwischen der Frontbespannung und dem Gehäuse (F) geschoben wird.

L'autre côté du bandeau se défait en ouvrant par devant les verrous en insérant un tournevis entre le bandeau et le coffret (F).

INSULATION TEST

Each set must be insulation tested after having been dismantled. Make the test when the set has been reassembled and is ready to be returned to the customer.

Flashovers must not occur during the testing procedure!

Make the insulation test as follows:

Short-circuit the two pins of the mains plug and connect them to one of the terminals of the insulation tester. Connect the other terminal to ground on the aerial socket.

NOTE!
To avoid damaging the set it is essential that both terminals of the insulation tester have good contact.

Slowly turn the voltage control of the insulation tester until a voltage of 1.5-2 kV is obtained. Maintain that voltage for one second, then slowly turn it down again.

ISOLATIONSPRÜFUNG

Nach einer Zerlegung ist bei jedem Gerät eine Isolationsprüfung vorzunehmen. Die Prüfung wird dann ausgeführt, wenn das Gerät wieder vollständig zusammengebaut und zur Auslieferung an den Kunden bereit ist.

Überschläge dürfen während der Prüfung nicht vorkommen!

Die Isolationsprüfung in folgender Weise durchführen:

Die beiden Steckerstifte am Netzstecker kurzschließen und an eine der Anschlußklemmen des Isolationsprüfers anschließen. Die andere Anschlußklemme an die Masse des Antennenanschlußes anschließen.

ACHTUNG!
Um Beschädigungen des Gerätes zu vermeiden, ist es wichtig, daß beide Anschlußklemmen des Isolationsprüfers einen sehr guten Kontakt haben.

Die Spannungsregelung des Isolationsprüfers langsam nach oben drehen, bis eine Spannung von 1,5-2 kV erreicht wird. Diese Einstellung 1 Sekund aufrechterhalten, und anschließend die Spannung wieder langsam nach unten drehen.

TEST D'ISOLEMENT

Il convient de soumettre l'appareil à un test d'isolement après l'avoir désassemblé. Ce test est effectué après avoir réassemblé l'appareil et avant de la remettre au client.

Aucun amorçage doit se produire lors du test!

Procéder au test d'isolement comme suit:

Court-circuiter les deux broches de la fiche secteur et les raccorder à une des bornes du testeur d'isolement. Raccorder l'autre borne à la masse de la prise d'antenne.

ATTENTION!
Pour éviter d'endommager l'appareil, il est important que les deux bornes du testeur d'isolement possèdent un bon contact.

Tourner lentement la tension sur le testeur d'isolement jusqu'à arriver à 1,5-2 kV.
Maintenir cette tension pour 1 seconde, puis la diminuer lentement de nouveau.